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PLEASE KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE

Enviro

PELLET STOVE

MERIDIAN

Freestanding and Fireplace Insert

TECHNICAL MANUAL

Sherwood Industries Ltd.
Saanichton, Canada

DIN 18 891
P- BWU 10/00016

IBP
Fraunhofer Institut bauphysik

CE 2004

Contact your building or fire officials about restrictions and installation inspection requirements in your area.

PLEASE READ THIS ENTIRE MANUAL BEFORE INSTALLATION AND USE OF THIS PELLET-BURNING ROOM HEATER. FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN PROPERTY DAMAGE, BODILY INJURY OR EVEN DEATH.

50-831

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Introduction

* **This manual is designed for the technician in conjunction with the owner's manual. ***

Rating Label Location:

	Freestanding:	Insert:
The rating label is located:	on the inside of the hopper lid.	on the hopper cover.

Important Safety Data:

Please read this entire Owner's Manual before installing or operating this ENVIRO Pellet Stove. Failure to follow these instructions may result in property damage, bodily injury or even death. Contact your local building or fire official to obtain a permit and any information on installation restrictions and inspection requirements for your area.

To prevent the possibility of a fire, ensure that the appliance is properly installed by adhering to the installation instructions. An ENVIRO dealer will be happy to assist you in obtaining information with regards to your local building codes and installation restrictions.

Be sure to maintain the structural integrity of the home when passing a vent through walls, ceilings, or roofs.

The stove's exhaust system works with negative combustion chamber pressure and a slightly positive chimney pressure. It is very important to ensure that the exhaust system be sealed and airtight. The ash pan and viewing door must be locked securely for proper and safe operation of the pellet stove.

Do not burn with insufficient combustion air. A periodic check is recommended to ensure proper combustion air is admitted to the combustion chamber. Setting the proper combustion air is achieved by adjusting the slider damper located on the left side of the stove.

When installing the stove in a mobile home, it must be electrically grounded to the steel chassis of the home and bolted to the floor. Make sure that the structural integrity of the home is maintained and all construction meets local building codes.

Minor soot or creosote may accumulate when the stove is operated under incorrect conditions such as an extremely rich burn (black tipped, lazy orange flames).

If you have any questions with regard to your stove or the above-mentioned information, please feel free to contact your local dealer for further clarification and comments.

Safety Warnings And Recommendations:

Caution: Do not connect to any air distribution duct or system.
Do not burn garbage or flammable fluids such as gasoline, naptha or engine oil.
Unit hot while in operation. Keep children, clothing and furniture away. Contact may cause skin burns.

SOOT: Operation of the stove with insufficient combustion air will result in the formation of soot which will collect on the glass, the heat exchanger, the exhaust vent system, and may stain the outside of the house. This is a dangerous situation and is inefficient. Frequently check your stove and adjust the slider/damper as needed to ensure proper combustion. **See: "Installation - Slider/Damper Setting".**

Introduction

ELECTRICAL: The use of a surge protected power bar is recommended. The unit must be grounded. The grounded electrical cord should be connected to a standard 220-240 volts (2.92-3.18 Amps), 50 hertz electrical outlet and also must be accessible. If this power cord should become damaged, a replacement power cord must be purchased from the manufacturer or a qualified ENVIRO dealer. Be careful that the electrical cord is not trapped under the appliance and that it is clear of any hot surfaces or sharp edges. This unit's maximum power requirement is 700 watts.

GLASS: Do not abuse the glass by striking or slamming the door. Do not attempt to operate the stove with broken glass. The stove uses ceramic glass. Replacement glass must be purchased from an ENVIRO dealer. Do not attempt to open the door and clean the glass while the unit is in operation or if glass is hot. To clean the glass, use a soft cotton cloth and mild window cleaner, gas or wood stove glass cleaner, or take a damp paper towel and dip into the fly ash. This is a very mild abrasive and will not damage the glass.

FLAMMABLE LIQUIDS: Never use gasoline, gasoline-type lantern fuel, kerosene, charcoal lighter fluid, or similar liquids to start or "freshen up" a fire in the heater. Keep all such liquids well away from the heater while it is in use.

SMOKE DETECTOR: Smoke detectors should be installed and maintained in the structure when installing and operating a pellet burning appliance.

OPERATION: The ash pan and door must be closed securely for proper and safe operation of the pellet stove. Also ensure all gaskets on the door are checked and replaced when necessary.

INSTALLATION: Be sure to maintain the structural integrity of your home when passing a vent through walls, ceilings, or roofs. It is recommended that the unit be secured into its position in order to avoid any displacement.

DO NOT INSTALL A FLUE DAMPER IN THE EXHAUST VENTING SYSTEM OF THIS UNIT.

DO NOT CONNECT THIS UNIT TO A CHIMNEY FLUE SERVING ANOTHER APPLIANCE.

FRESH AIR: Outside Fresh Air is optional. Consider all large air moving devices when installing your unit and provide room air accordingly. Limited air for combustion may result in poor performance, smoking and other side effects of poor combustion.

If you have any questions with regards to your stove or the above-mentioned information, please feel free to contact your local dealer for further clarification and comments.

SINCE SHERWOOD INDUSTRIES LTD. HAS NO CONTROL OVER THE INSTALLATION OF YOUR STOVE, SHERWOOD INDUSTRIES LTD. GRANTS NO WARRANTY IMPLIED OR STATED FOR THE INSTALLATION OR MAINTENANCE OF YOUR STOVE. THEREFORE, SHERWOOD INDUSTRIES LTD. ASSUMES NO RESPONSIBILITY FOR ANY CONSEQUENTIAL DAMAGE(S).

SAVE THIS INSTRUCTION MANUAL FOR FUTURE REFERENCE

Installation

Deciding Where to Locate your Pellet Appliance:

1. Check clearances to combustibles (see Installation - Clearances to Combustibles - Freestanding, Installation - Alcove Clearances - Freestanding, and Installation - Clearances to Combustibles - Fireplace Insert.
2. Do not obtain combustion air from an attic, garage or any unventilated space. Combustion air may be obtained from a ventilated crawlspace.
3. Do not install the stove in a bedroom.
4. You can vent the stove through an exterior wall behind the unit or connect it to an existing masonry or metal chimney (must be lined if the chimney is over 6" (15 cm) diameter, or over 28 inches² (180 cm²) cross sectional area). An interior vent can be used with approved pipe passing through the ceiling and roof.
5. Locate the stove in a large and open room that is centrally located in the house. This will optimize heat circulation.
6. The power cord is 8 feet (2.43 m) long and may require a grounded extension cord to reach the nearest electrical outlet.

Removing Pellet Stove From Pallet:

To remove your new stove from its pallet, remove the two (2) screws securing the bottom to the pallet.

Freestanding: One screw can be easily seen from behind but to access the second screw the ashpan must be removed.

Fireplace Insert: There is one screw on either side of the bottom.

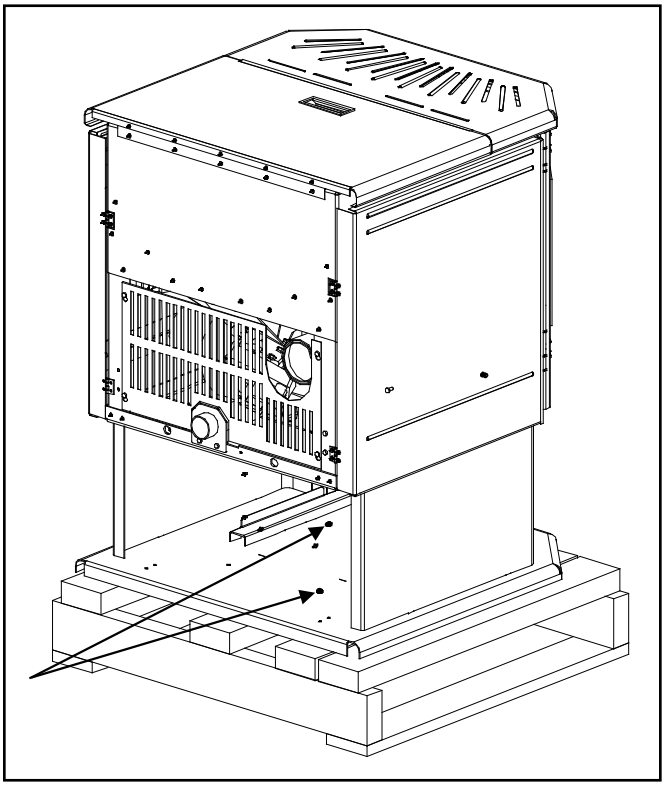


Figure 1: Removing Freestanding Stove From the Pallet.

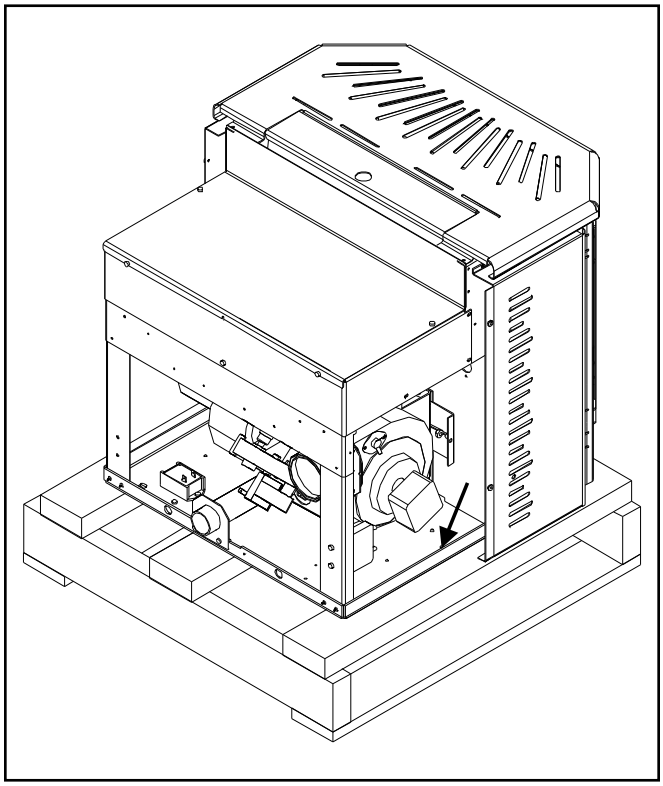


Figure 2: Removing Insert Stove From the Pallet.

Dimensions - Freestanding:

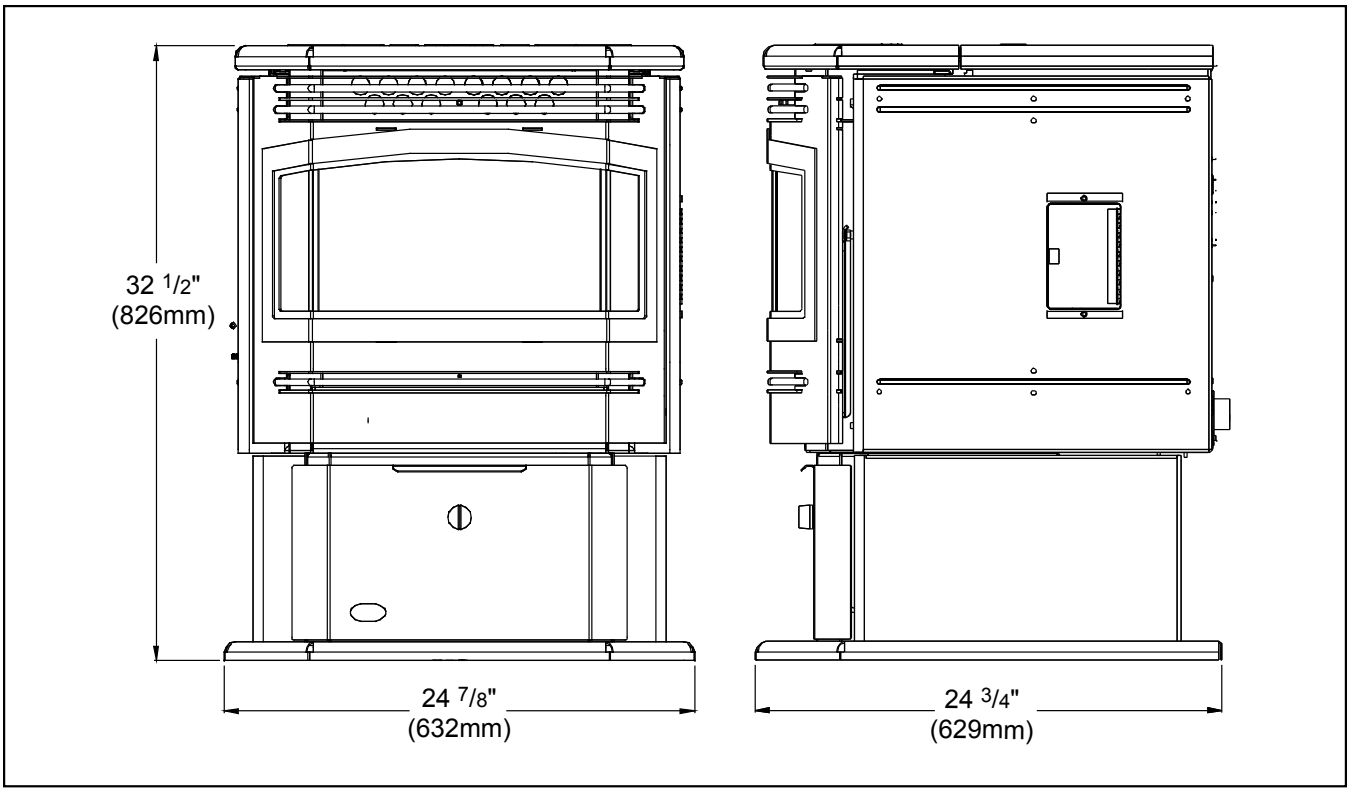


Figure 3: Meridian Freestanding Dimensions.

Dimensions - Fireplace Insert:

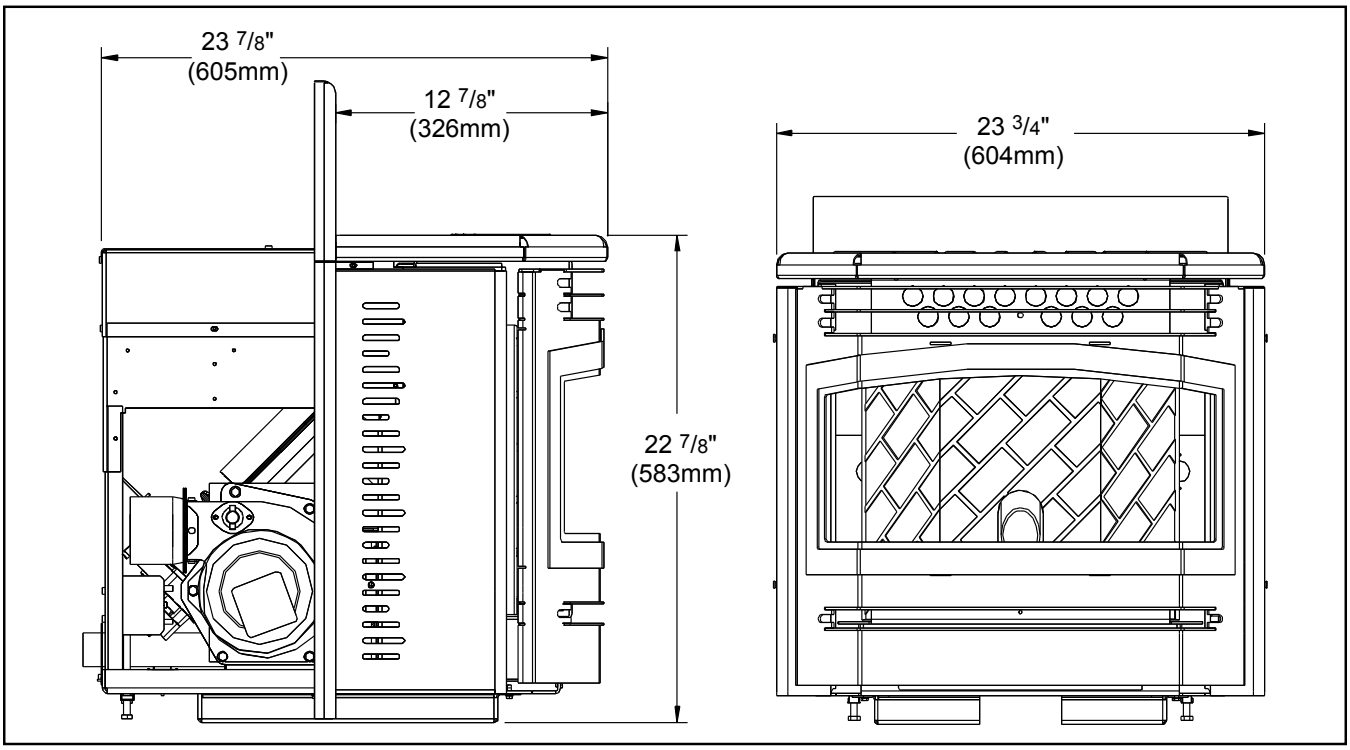


Figure 4: Meridian Fireplace Insert Dimensions.

Clearances to Combustibles - Freestanding:

These dimensions are minimum clearances but it is recommended that you ensure sufficient room for serving, routine cleaning and maintenance.

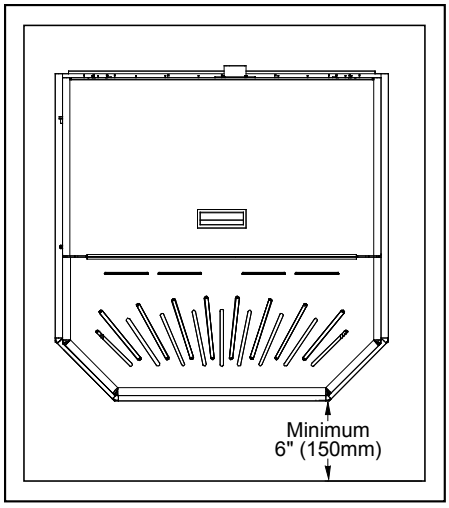


Figure 5: Meridian on Floor Protection.

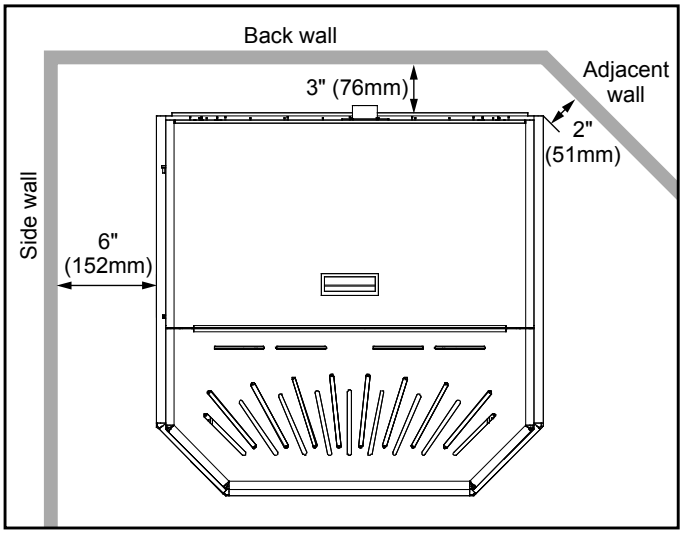


Figure 6: Minimum Clearances to Combustibles for Freestanding Meridian.

This pellet stove requires floor protection. The floor protection must be non-combustible, extending beneath the stove the full width and depth of the unit including 6“ (150 mm) in front for ember protection.

Alcove Clearances - Freestanding:

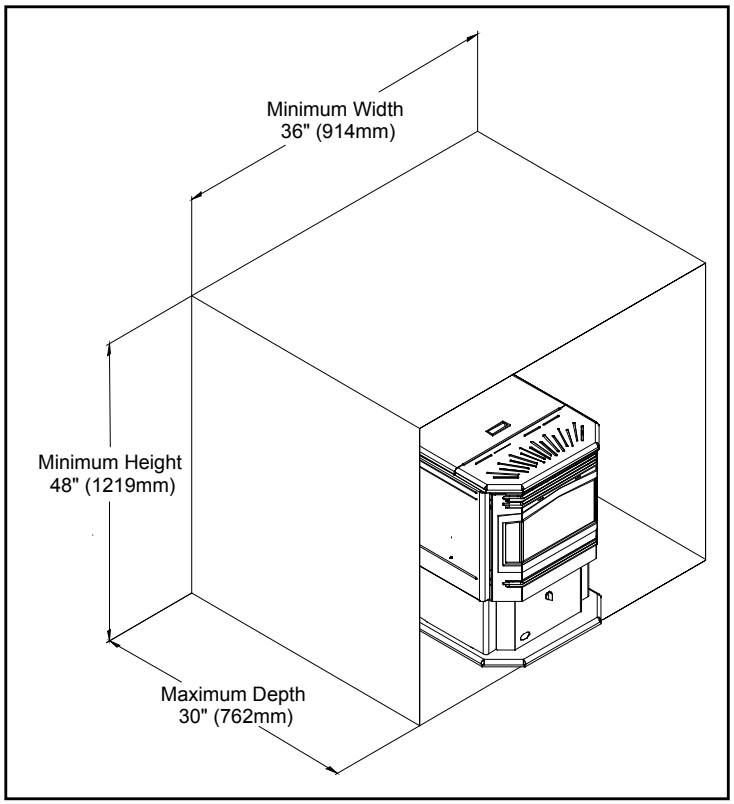


Figure 7: Alcove Clearances Freestanding Meridian.

Installation

Clearances to Combustibles - Fireplace Insert:

The fireplace insert must be installed into a masonry fireplace. This model includes a surround faceplate and a pedestal. When installing this unit, ensure that the pedestal is removed from the inside of the hopper and installed on the bottom of the unit. Refer to Installation - Installation of Pedestal and Leveling Legs - Fireplace Insert and Installation - Installing Hopper Cover and Adjusting Hopper Height - Fireplace Insert before proceeding.

From the body of the heater to the side wall:	8 inches (203 mm) minimum
From the body of the heater to the Facing on masonry fireplace:	8 inches (203 mm) minimum
From the body of the heater to the 8" (203 mm) mantle:	8 inches (203 mm) minimum

Installation of Pedestal and Leveling Legs - Fireplace Insert:

There are two parts to the Meridian insert pedestal and they can be found inside the hopper. Place unit on its back. Two (2) hex head screws are used on each side of the pedestal (refer to Figure 13). Using a $^{5}/_{16}$" wrench or socket attach the pedestal to the bottom of the unit.

OPTIONAL:

There are two (2) leveling legs and they can be found inside the manual bag. Each leveling leg consists of a long bolt, a hex nut, a washer, and a square bolt with clip (see Figure 8). For installation of the leveling legs the unit should be on its back and a ½" wrench is required for adjustments.

Install the square bolts into the square holes in the back corners of the bottom. The square bolt should be inserted from inside the unit so that the clip will be facing up.

Thread hex nut onto the bolt till it is approximately 1" (25 mm) from the bolt head, slide washer onto bolt. Thread the bolt into the square nut so length of the bolt shown is the approximately height needed for leveling. When the unit is up right and the bolts can be adjusted to the exact height required. To lock the bolts at a height tighten the hex nut and washer against the square bolt

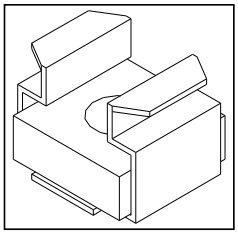


Figure 8: Square Bolt.

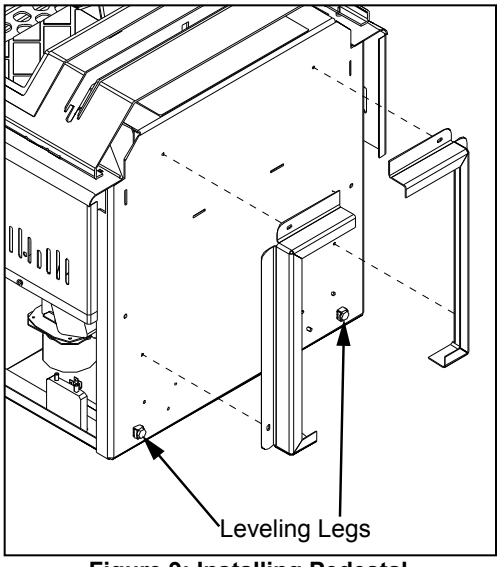


Figure 9: Installing Pedestal.

Installing Hopper Cover and Adjusting Hopper Height - Fireplace Insert:

The hopper cover initially comes upside-down on top of the hopper. To install the hopper cover flip the cover over and fasten in place with four T-20 screws (see Figure 10).

The back height of this unit can be set to one (1) of three (3) heights; 19" (483 mm), 21⅛" (537 mm), 22¼" (565 mm). The hopper should be set to the maximum height that can be used in the installation.

To change the height of the hopper back up or down, remove the seven (7) T-20 screws, three (3) on each side and one (1) on the back. The screw placement is shown Figure 11. Move the hopper assembly to the required setting and replace the screws. When the hopper back is in place it is recommended that silicone is used to seal the bottom lip of the hopper back and sides

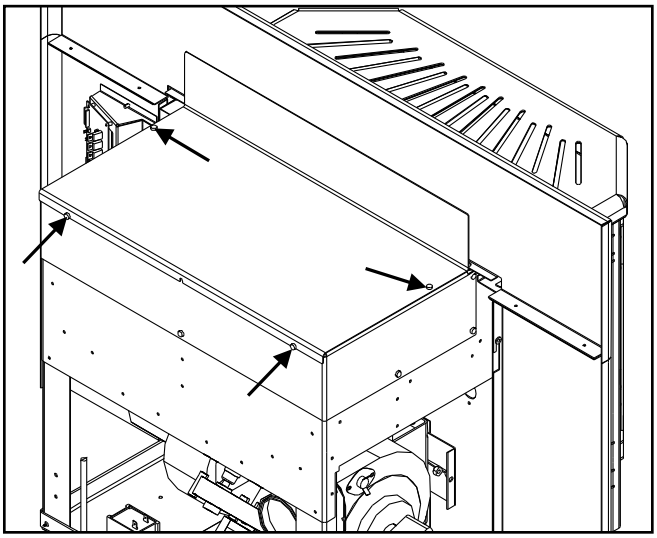


Figure 10: Hopper Cover Screw Placement.

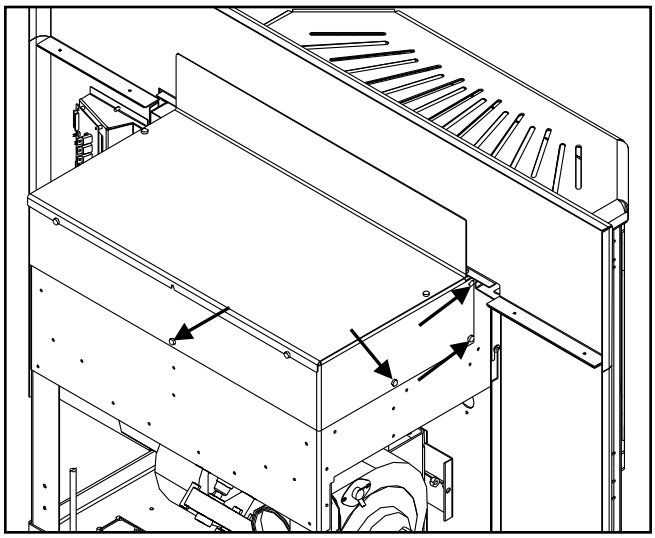


Figure 11: Hopper Extension Screw Placement.

Mobile Home Installation - Freestanding:

- Secure the heater to the floor using the holes in the pedestal of the appliance.
- Ensure the unit is electrically grounded to the chassis of your home (permanently).

WARNING: Do not install in a room people sleep in.

CAUTION: The structural integrity of the manufactured home floor, wall and ceiling/roof must be maintained

• Outside fresh air is mandatory. Secure outside air connections directly to fresh air intake pipe and secure with three (3) screws evenly spaced.

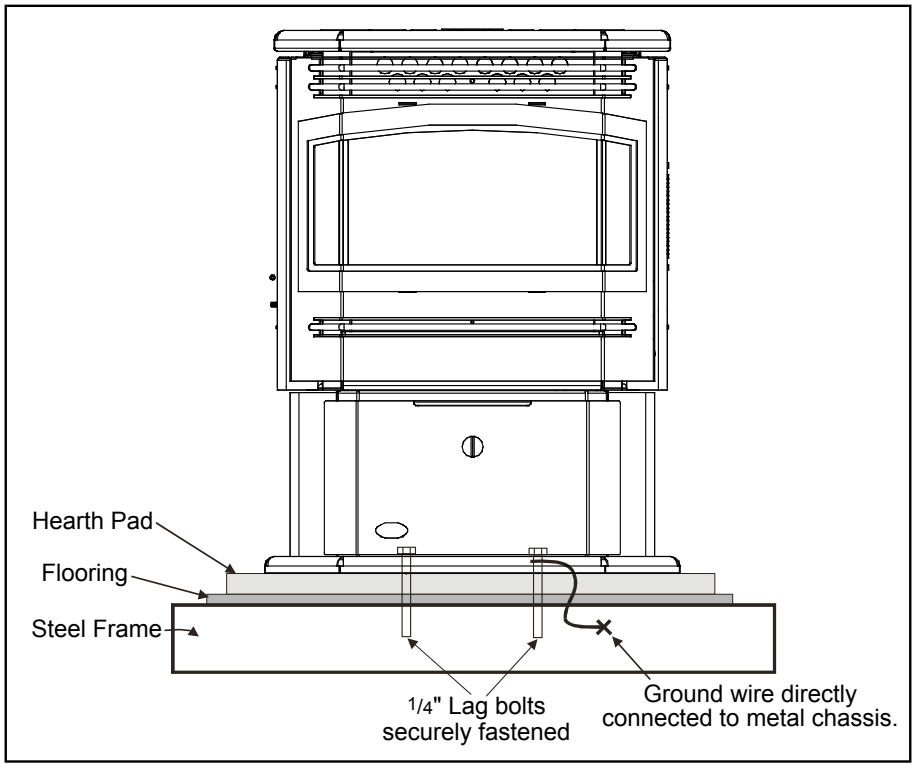


Figure 12: Mobile Home Install Mounting.

Exhaust And Fresh Air Intake Locations:

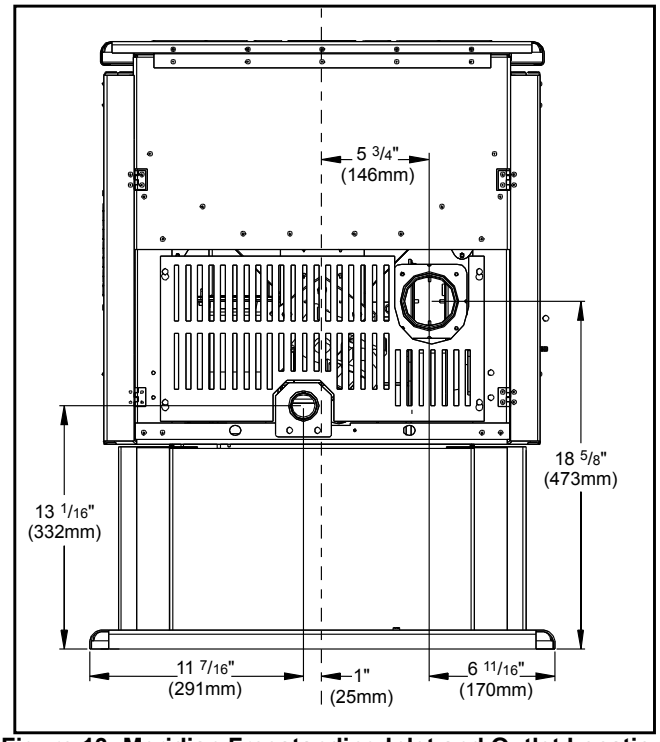


Figure 13: Meridian Freestanding Inlet and Outlet Location.

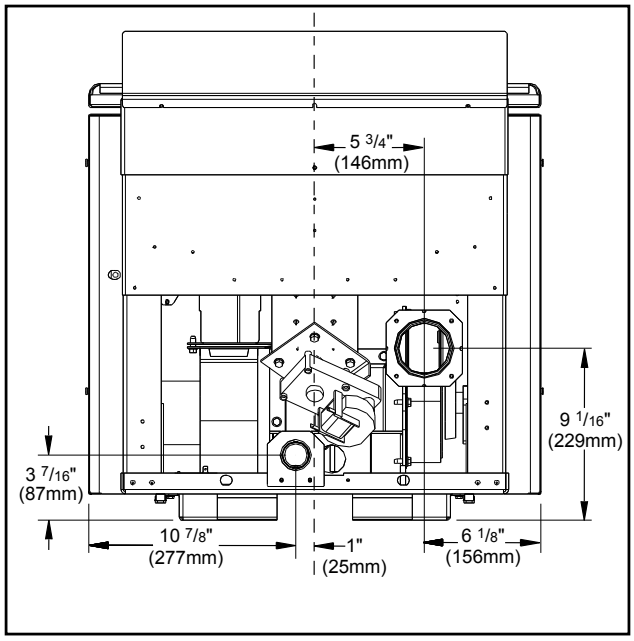


Figure 14: Meridian Insert Inlet and Outlet Location.

EXHAUST	**Freestanding**		**Insert**	
Base of unit to center of flue	18 5/8″	(473 mm)	9 1/16″	(229 mm)
Side of unit to center of flue	6 11/16″	(170 mm)	6 1/8″	(156 mm)
Center of unit to center of flue	5 3/4″	(146 mm)	5 3/4″	(146 mm)
FRESH AIR INTAKE.				
Base of unit to center of intake	13 1/16″	(332 mm)	3 7/16″	(87 mm)
Side of unit to center of intake	11 7/16″	(291 mm)	10 7/8″	(277 mm)
Center of unit to center of flue	1″	(25 mm)	1″	(25 mm)

INSTALL VENT AT CLEARANCES SPECIFIED BY THE VENTING MANUFACTURER

Outside Fresh-Air Connection:

Outside fresh air is mandatory when installing this unit in airtight homes and mobile homes.

A Fresh-air intake is strongly recommended for all installations. Failure to install intake air may result in improper combustion as well as the unit smoking during power failures.

When connecting to an outside fresh air source, do not use plastic or combustible pipe. A 2″ minimum (51 mm) ID (inside diameter) steel, aluminum or copper pipe should be used. It is recommended, when you are installing a fresh air system, to keep the number of bends in the pipe to a minimum.

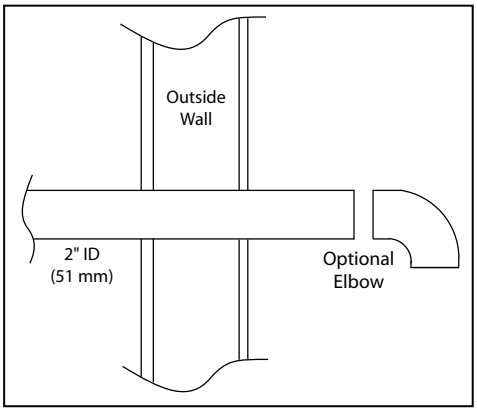


Figure 15: Outside Air Connection.

Vent Termination Requirements:

IT IS RECOMMENDED THAT YOUR PELLET STOVE BE INSTALLED BY AN AUTHORIZED DEALER/INSTALLER.

Table 1: Use in conjunction with Figure 16 for allowable exterior vent termination locations.

Letter	Minimum Clearance	Description
A	24 in (61 cm)	Above grass, top of plants, wood, or any other combustible materials.
B	48 in (122 cm)	From beside/below any door or window that may be opened.
C	24 in (61 cm)	From above any door or window that may be opened.
D	24 in (61 cm)	To any adjacent building, fences and protruding parts of the structure.
E	24 in (61 cm)	Below any eave or roof overhang
F	12 in (30 cm)	To outside corner.
G	12 in (30 cm)	To inside corner, combustible wall (vertical and horizontal terminations).
H	3 ft (91 cm) within a height of 15 ft (4.5 m) above the meter/regulator assembly	To each side of center line extended above natural gas or propane meter/regulator assembly or mechanical vent.
I	3 ft (91 cm)	From any forced air intake of other appliance
J	12 in (30 cm)	Clearance to non-mechanical air supply inlet to building, or the combustion air inlet to any appliance.
K	24 in (61 cm)	Clearance above roof line for vertical terminations.
L	7 ft (2.13 m)	Clearance above paved sidewalk or paved driveway located on public property.

1. Do not terminate the vent in any enclosed or semi-enclosed areas such as a carport, garage, attic, crawlspace, narrow walkway, closely fenced area, under a sundeck or porch, or any location that can build up a concentration of fumes such as stairwells, covered breezeway, etc.

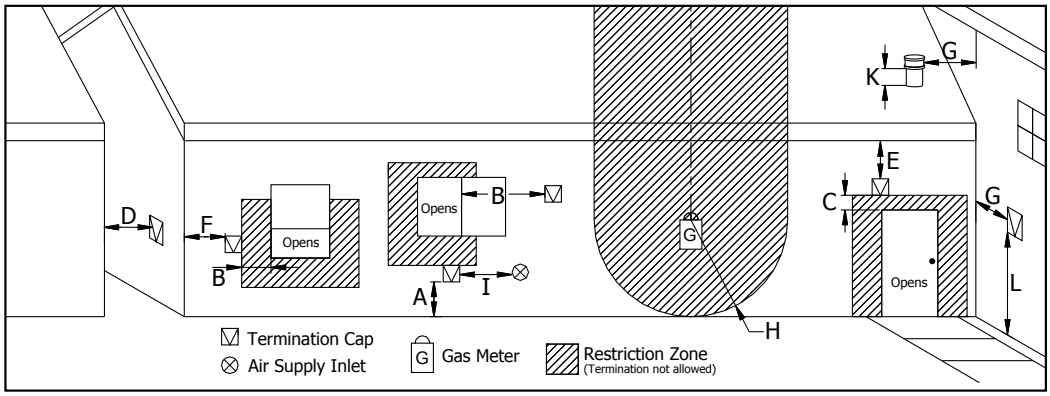


Figure 16: Use in conjunction with Table 1 for allowable exterior vent termination locations.

2. Vent surfaces can become hot enough to cause burns if touched by children. Non-combustible shielding or guards may be required.
3. Termination must exhaust above the inlet elevation. It is recommended that at least five feet of vertical pipe be installed outside when the appliance is vented directly through a wall, to create some natural draft to prevent the possibility of smoke or odor during appliance shut down or power failure. This will keep exhaust from causing a nuisance or hazard from exposing people or shrubs to high temperatures. In any case, the safest and preferred venting method is to extend the vent through the roof vertically.
4. Distance from the bottom of the termination and grade is 12” (30 cm) minimum. This is conditional upon the plants and nature of grade surface. The exhaust gases are hot enough to ignite grass, plants and shrubs located in the vicinity of termination. The grade surface must not be lawn.
5. If the unit is incorrectly vented or the air to fuel mixture is out of balance, a slight discoloration of the exterior of the house might occur. Since these factors are beyond the control of Sherwood Industries Ltd, we grant no guarantee against such incidents.

NOTE: Venting terminals shall not be recessed into walls or siding.

Corner Through Wall Installation - Freestanding:

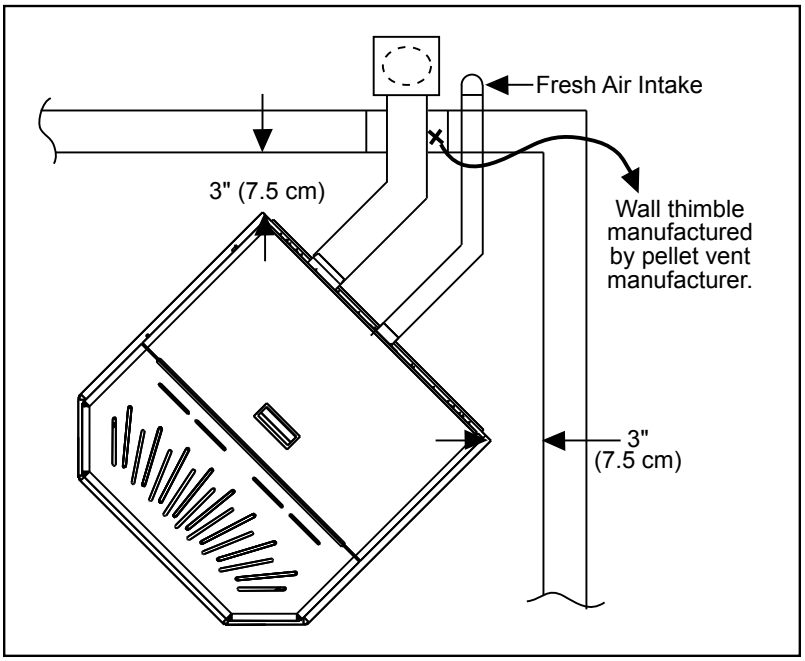


Figure 17: Corner Installation.

Horizontal Exhaust Through Wall Installation - Freestanding:

Vent installation: install vent at clearances specified by the vent manufacturer.

A chimney connector shall not pass through an attic or roof space, closet or similar concealed spaces, or a floor, or ceiling. Where passage through a wall or partition of combustible construction is desired, the installation shall conform to CAN/CSA-B365 Installation Code for Solid-Fuel-Burning Appliances and Equipment. Only use venting of L or PL type with an inside diameter of 3 or 4 inches (7.6 or 10.1 cm).

1. Choose a location for your stove that meets the requirements stated in this manual and allows installation with the least amount of interference to house framing, plumbing, wiring, etc.
2. Install a non-combustible hearth pad (where necessary).
3. Place the appliance 15” (37.5 cm) away from the wall. If the stove is to be set on a hearth pad, set the unit on it.
4. Locate the center of the exhaust pipe on the stove. Extend that line to the wall. Once you have located the center point on the wall, refer to pellet vent manufacturer installation instructions for correct hole size and clearance to combustibles.
5. Install the wall thimble as per the instructions written on the thimble. Maintain an effective vapour barrier in accordance with local building codes.
6. Install a length of 3” (76 mm) or 4” (101 mm) vent pipe into the wall thimble. The pipe should install easily into the thimble.
7. Install the fresh air intake (see Installation - Outside Fresh Air Connection).
8. Connect the exhaust vent pipe to the exhaust pipe on the stove. Seal the connection with high temperature silicone.
9. Push the stove straight back, leaving a minimum of 2” (5 cm) clearance from the back of the stove to the wall. Seal the vent pipe to the thimble with high temperature silicone.

10. The pipe must extend at least 12” (30 cm) away from the building. If necessary, bring another length of pipe (PL type) to the outside of the home to connect to the first section. Do not forget to place high temperature silicone around the pipe that passes through the thimble.

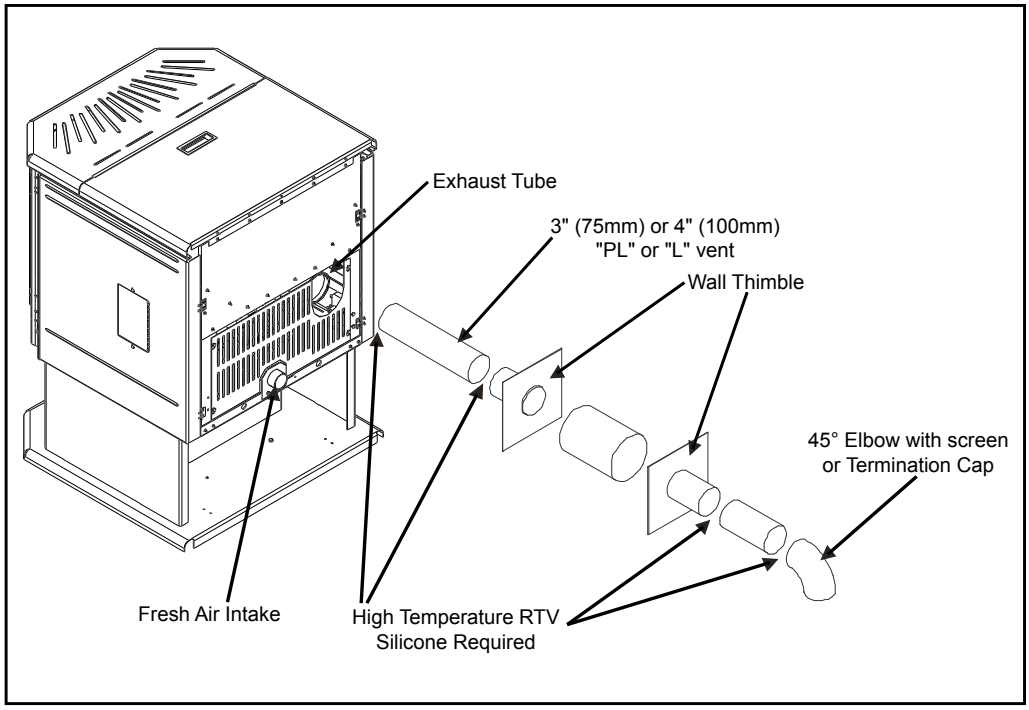


Figure 18: Straight through wall Installation.

11. Install a vertical pipe, or if all requirements for direct venting are met, install vent termination. The stainless steel cap termination manufactured by the vent manufacturer is recommended. However, when the vent terminates several feet above ground level and there are no trees, plants, etc. within several feet, a 45° elbow can be used as termination. The elbow must be turned down to prevent rain from entering.

NOTE:

- Some horizontal through wall installations may require a “T” and 3 to 5 feet (91 to 152 cm) of vertical pipe outside the building to help naturally draft in the unit.
- This may be required if a proper burn cannot be maintained, after the stove has been tested and the airflow set.
- This is due to the back pressure in the exhaust caused by airflow around the structure.
- All sections of pipe must have three (3) screws evenly spaced and all horizontal and vertical vent sections located within the house must have a bead of high temperature silicone installed on the male end of the pipe before installation to create a gas tight seal.
- The termination must be 12 inches (30 cm) from the outside wall and 12 inches (30 cm) above the ground.
- A 45° elbow with a rodent screen may be used in place of the termination cap (or stainless steel termination hood).

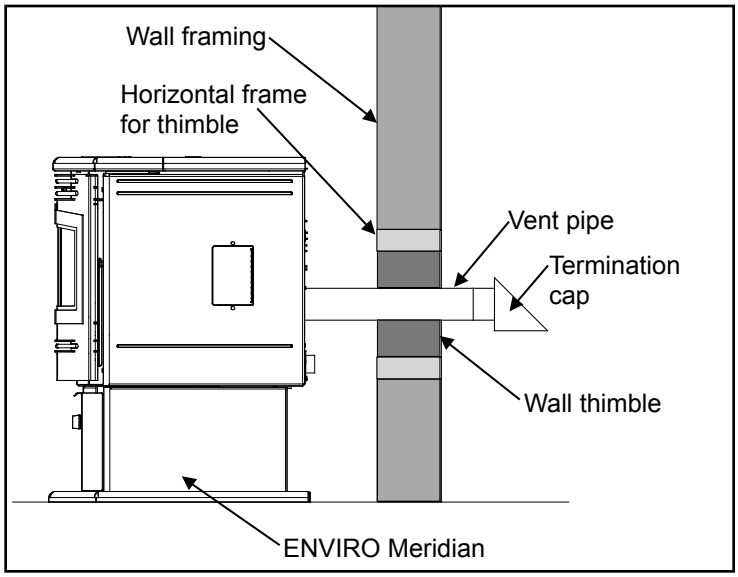


Figure 19: Straight through Wall Installation - Side View.

Vertical Rise with Horizontal Termination Installation (Recommended) - Freestanding:

A 45° elbow with a rodent screen may be used in place of the termination cap (or stainless steel termination hood).

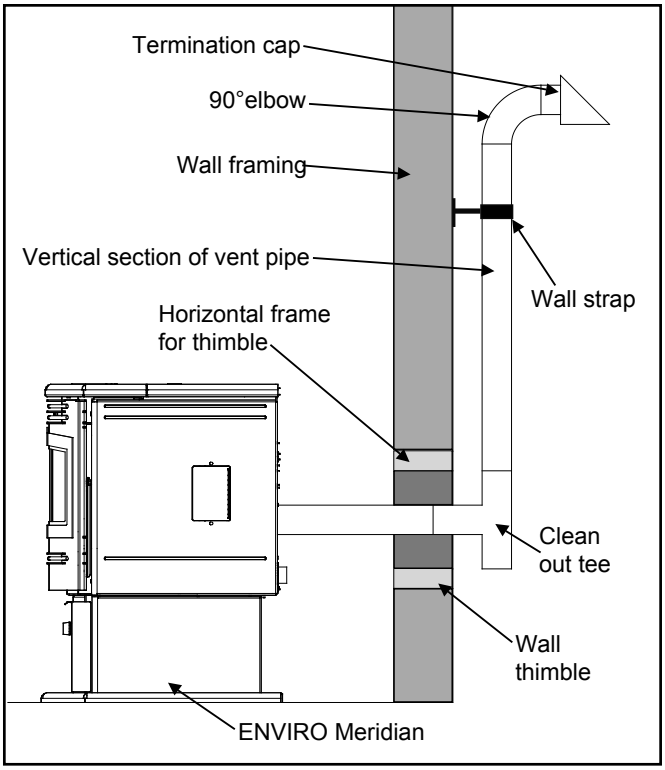


Figure 20: Through Wall with Horizontal Termination.

Through Concrete Wall With Vertical Rise Installations - Freestanding:

A 45° elbow with a rodent screen may be used in place of the termination cap (or stainless steel termination hood).

This is the recommended installation to use if there is a concrete or retaining wall in line with exhaust vent on pellet stove.

The termination must be 12 inches (30 cm) from the outside wall and 12 inches (30 cm) above the ground.

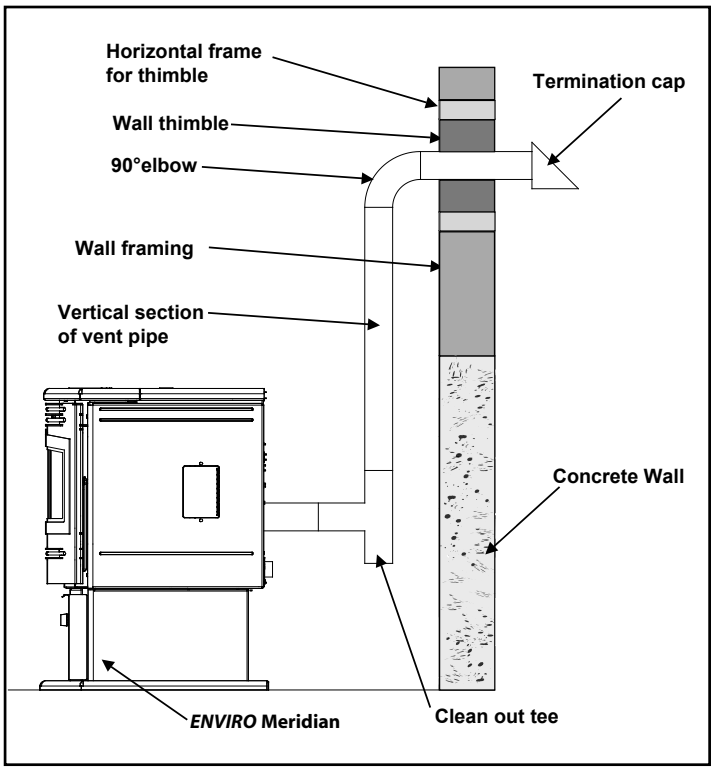


Figure 21: Vertical rise with Horizontal Termination.

Inside Vertical Installations - Freestanding:

1. Choose a stove location that is ideal. See the section "Installation - Deciding Where to Locate your Pellet Appliance."
2. Place the unit on the hearth pad (if installed on a carpeted surface) and space the unit in a manner so when the pellet vent is installed vertically, it will be 3" (76 mm) away from a combustible wall.
3. Locate the center of the fresh air intake pipe on the unit. Match that center with the same point on the wall and cut a hole about 2" (51 mm) in diameter.
4. Install the fresh air intake pipe.
5. Install the tee with clean out.
6. Install the pellet vent upward from there. When you reach the ceiling, make sure that the vent goes through the ceiling fire stop. Maintain a 3" (76 mm) distance to combustibles and keep attic insulation away from the vent pipe. Maintain an effective vapor barrier.
7. Finally, extend the pellet vent to go through the roof flashing.
8. Ensure that the rain cap is approximately 24" (610 mm) above the roof.

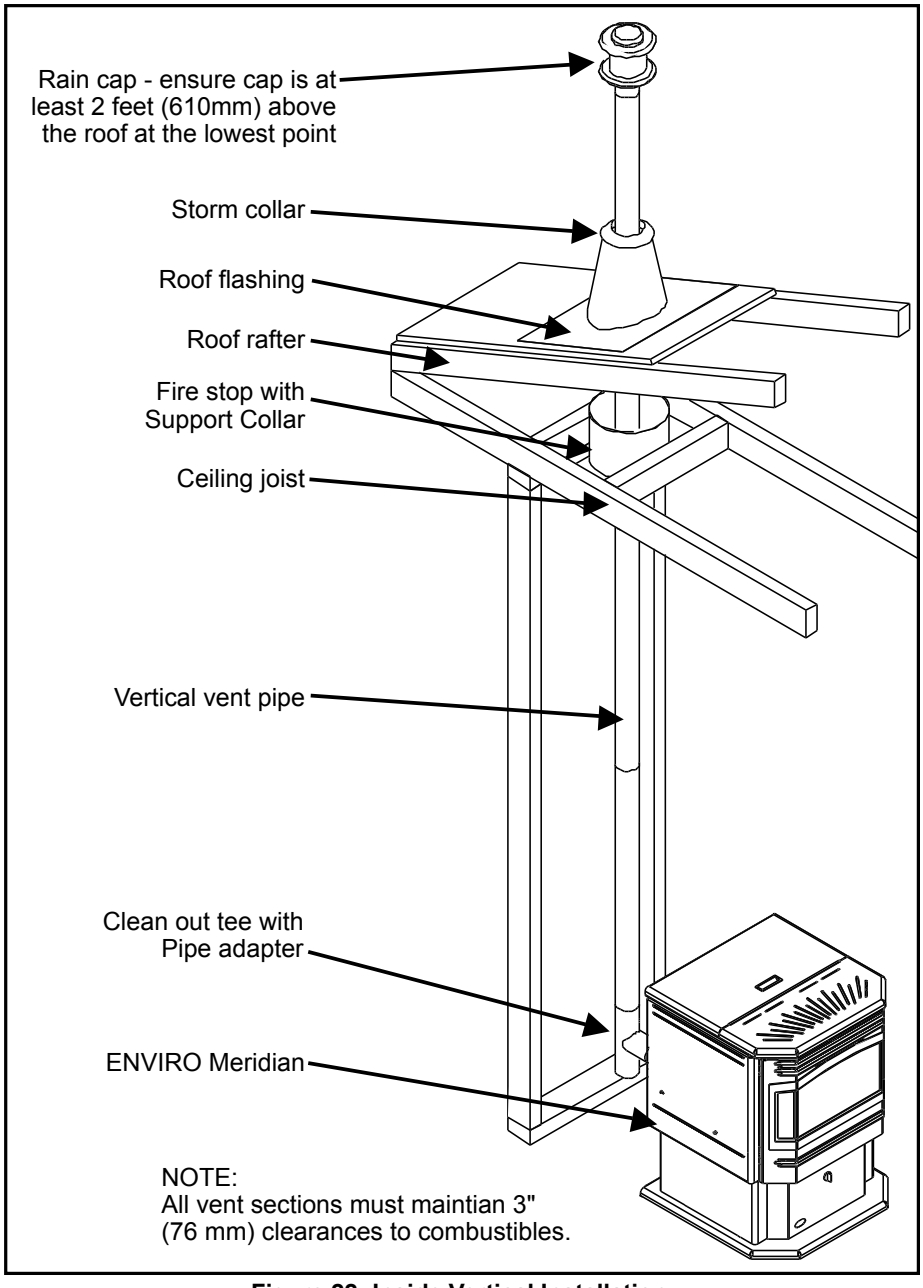

Rain cap - ensure cap is at least 2 feet (610mm) above the roof at the lowest point
Storm collar
Roof flashing
Roof rafter
Fire stop with Support Collar
Ceiling joist
Vertical vent pipe
Clean out tee with Pipe adapter
ENVIRO Meridian
NOTE:
All vent sections must maintian 3" (76 mm) clearances to combustibles.

Figure 22: Inside Vertical Installation.

Outside Vertical Installations - Freestanding:

To accomplish a outside vertical pipe installation, follow steps 1 through 5 in the "Inside Vertical Installations - Freestanding" section and then finish it by performing the following (refer to Figure 23).

1. Install a tee with clean out on the outside of the house.
2. Install PL vent upward from the tee. Make sure that you install support brackets to keep the vent straight and secure.
3. Install ceiling thimble and secure the flashing as you go through the roof.
4. Ensure that the rain cap is approximately 24" (610 mm) above the roof.

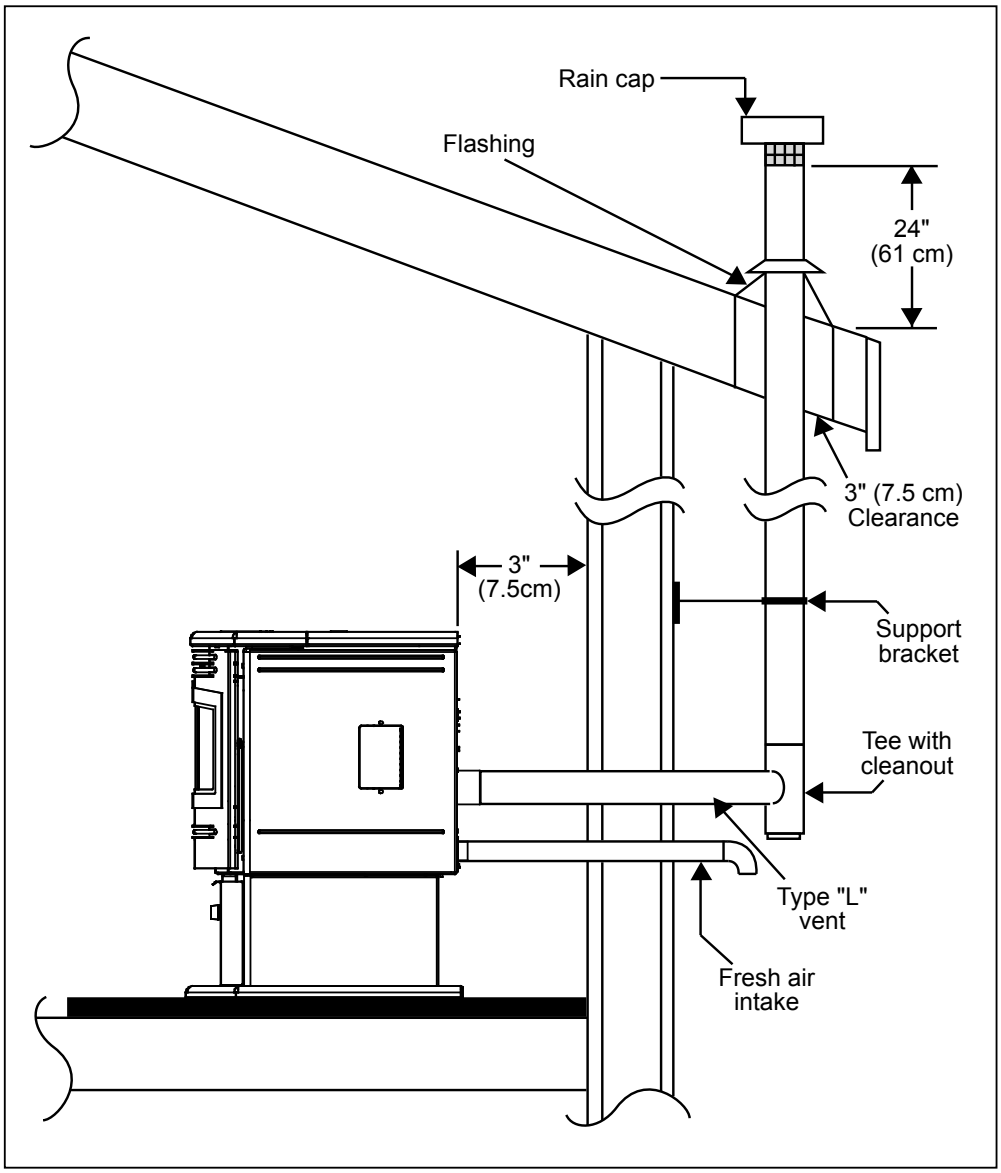


Figure 23: Outside Vertical Installation.

Hearth Mount Installation - Freestanding:

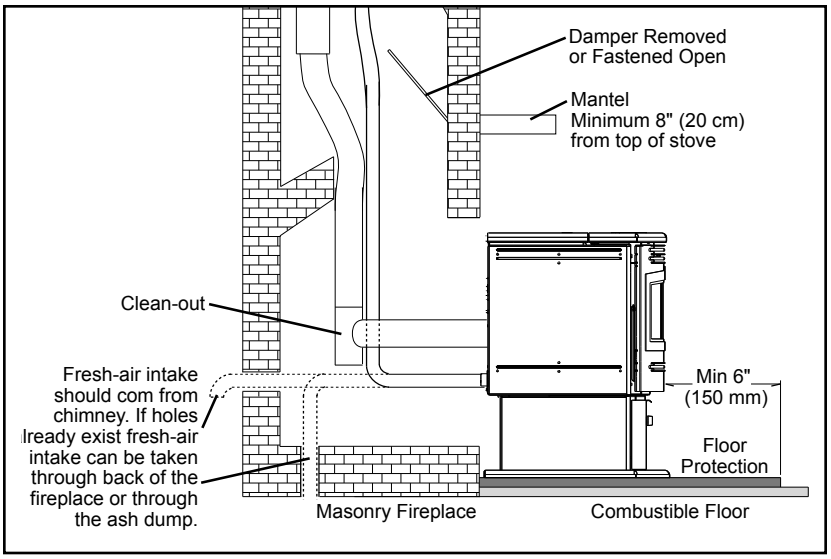


Figure 24: Hearth Mount - Side View.

1. Lock fireplace damper in the open position.
2. Install a positive flue connector at the fireplace dampers.
3. Connect a clean-out tee or a 90° elbow to the exhaust pipe.
4. Install flexible stainless steel liner or listed pellet vent to the top of the chimney.

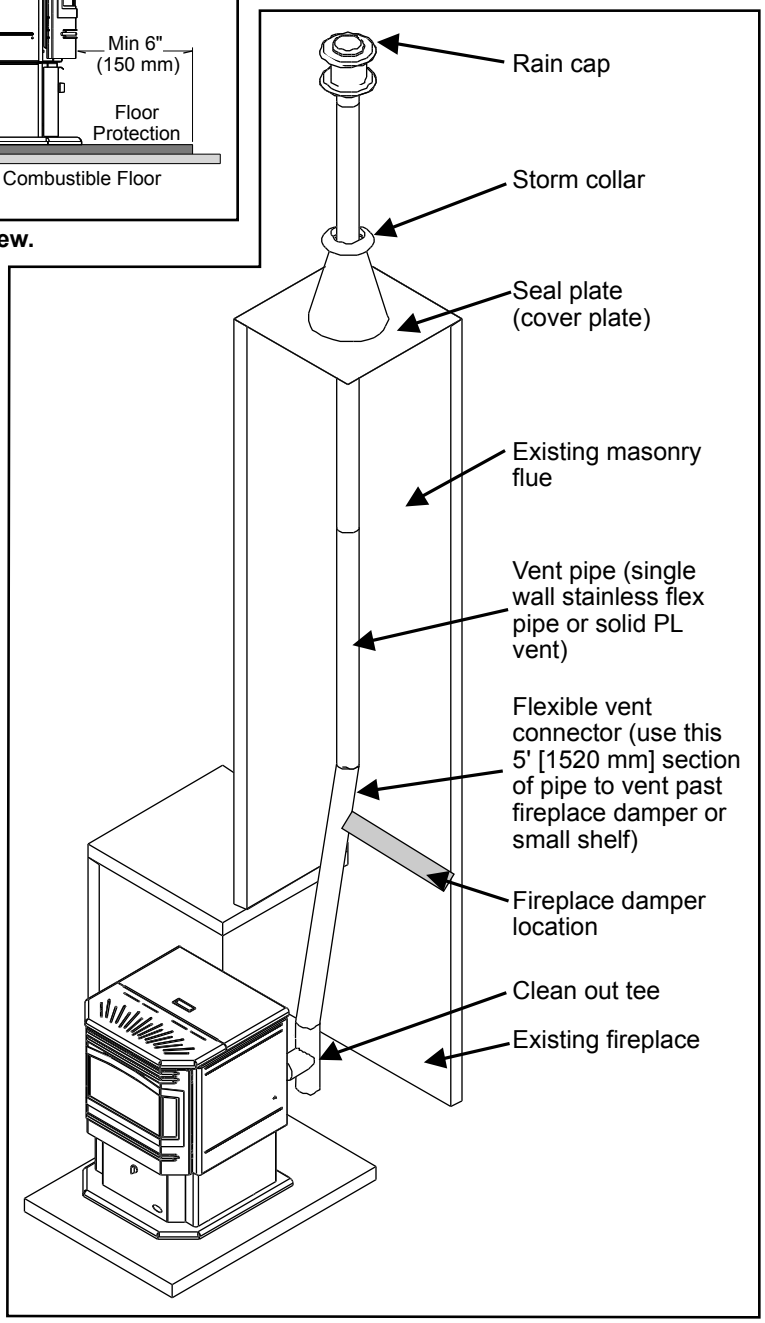


Figure 25: Hearth Mount - Over View.

Installation with Exterior Mounted Exhaust Blower - Freestanding:

The MERIDIAN can be equipped with an externally mounted exhaust blower (PART #50-492). This optional kit will include all components necessary to install the exhaust blower on any external vertical wall surface.

Choose a location for your stove that meets the requirements stated in this manual and allows installation with the least amount of interference to house framing, plumbing, wiring, etc.

Included in the exterior mounted exhaust blower kit are:
1 - Exhaust blower housing box.
1 - Blower cover plate.
1 - Hardware bag

1. Open the left side of the unit and the back grill and disconnect the Exhaust Blower wires from the harness. Remove the exhaust blower by undoing the six (6) ¼ hex head sheet metal screws that fasten the blower to the housing.
2. Remove the back grill from the exterior exhaust vent housing and remove the round cover plate installed on the blower housing.
3. Install the round cover plate over the gasketed opening in the stove where the exhaust motor was removed from.
4. Install the exhaust blower motor in the Exterior Vent Housing Box onto the exhaust blower housing.
5. Follow the procedures for Installation - Horizontal Exhaust Through Wall Installation - Freestanding. Place the unit in the desired location. Cut the hole in the wall at the desired location. Install a wall thimble.
6. Drill holes in the wall thimble in the corresponding locations for wire and fresh air if needed. Install wire clamps and feed wire through the hole in the thimble into the house. Tighten clamp on wire and attach green ground wire (at the symbol) with the screw and star washer provided.
7. Attach a short or an adjustable section of 3" of double wall pellet vent through the wall thimble to the stove. Seal all joints with silicone. Maintain clearances to combustibles.
8. Apply silicone to the pipe in the Exhaust Box, slide the pipe into the exhaust vent. Mount the Exhaust Box to the house. Reinstall the back grill on the Exterior Vent Housing Box. Apply normal venting practices when installing the vertical vent pipe.
9. Connect the wires in the stove. Re-install the Left side and Back Grill on the stove.
10. Set the Slider Damper as described in the Installation - Slider/Damper Setting" section.

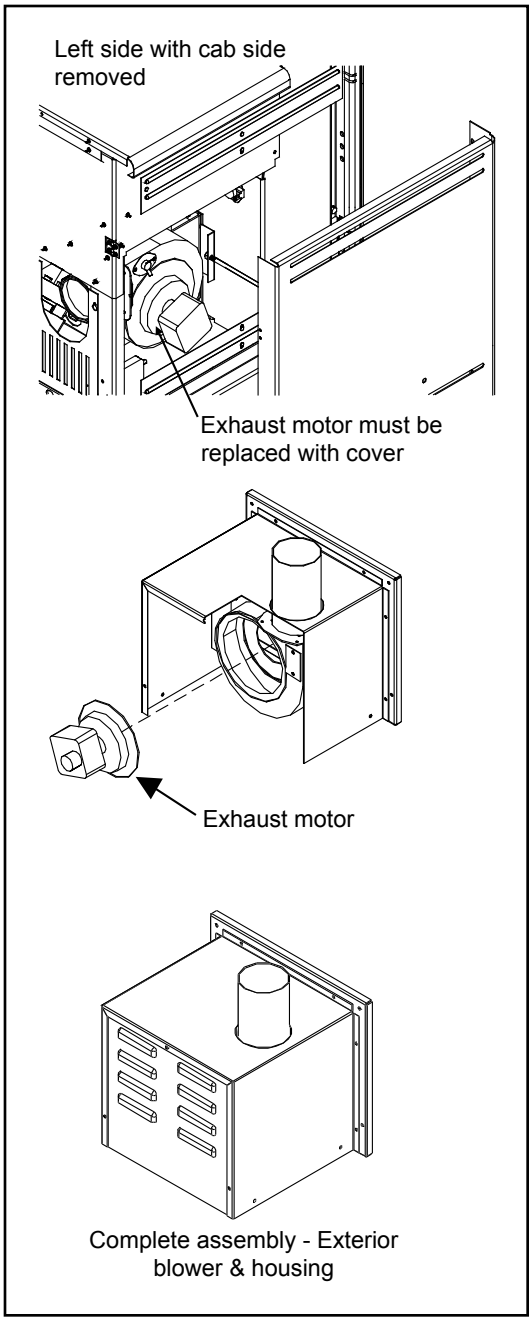

Left side with cab side removed
Exhaust motor must be replaced with cover
Exhaust motor
Complete assembly - Exterior blower & housing

Figure 26: Exterior Exhaust Blower.

NOTE:

Ensure that all vent connections are installed by placing three (3) screws evenly spaced and a small bead of high temperature silicone at each chimney connection. Also ensure that all vertical vent sections are properly supported and that all clearances to combustibles are maintained in accordance with the vent manufacturer's specifications.

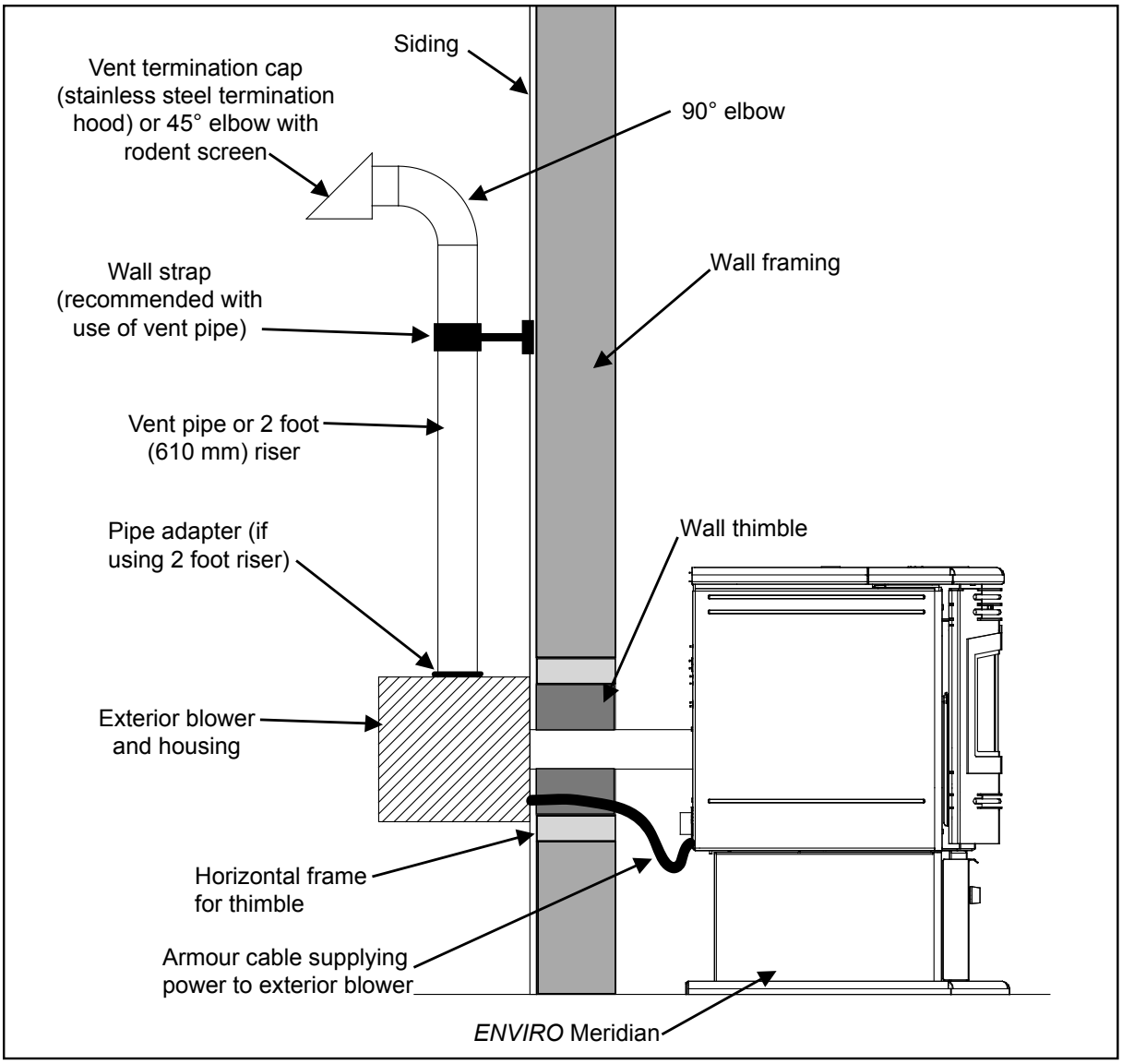

Siding
Vent termination cap (stainless steel termination hood) or 45° elbow with rodent screen
90° elbow
Wall framing
Wall strap (recommended with use of vent pipe)
Vent pipe or 2 foot (610 mm) riser
Pipe adapter (if using 2 foot riser)
Wall thimble
Exterior blower and housing
Horizontal frame for thimble
Armour cable supplying power to exterior blower
ENVIRO Meridian

Figure 27: Exhaust Blower Installation; Horizontal Termination.

TO SUPPLY POWER TO THE EXHAUST BLOWER:

Install an amour coated electrical cable from the exhaust blower housing, through the wall thimble, and attach to the pre-drilled hole in the left hand rear hopper pillar. Hook up to wires from the wiring harness for the exhaust blower. All electrical connections must be in accordance with local code requirements (see Wiring Diagram).

Through Wall Vertical Installation With Exhaust Blower - Freestanding:

Refer to Installation - Installation with Exterior Mounted Exhaust Blower - Freestanding and Installation - Outside Vertical Installations - Freestanding. Ensure that vent pipe is properly secured to wall using wall straps. Maintain clearances to combustibles on vent pipe as well as unit.

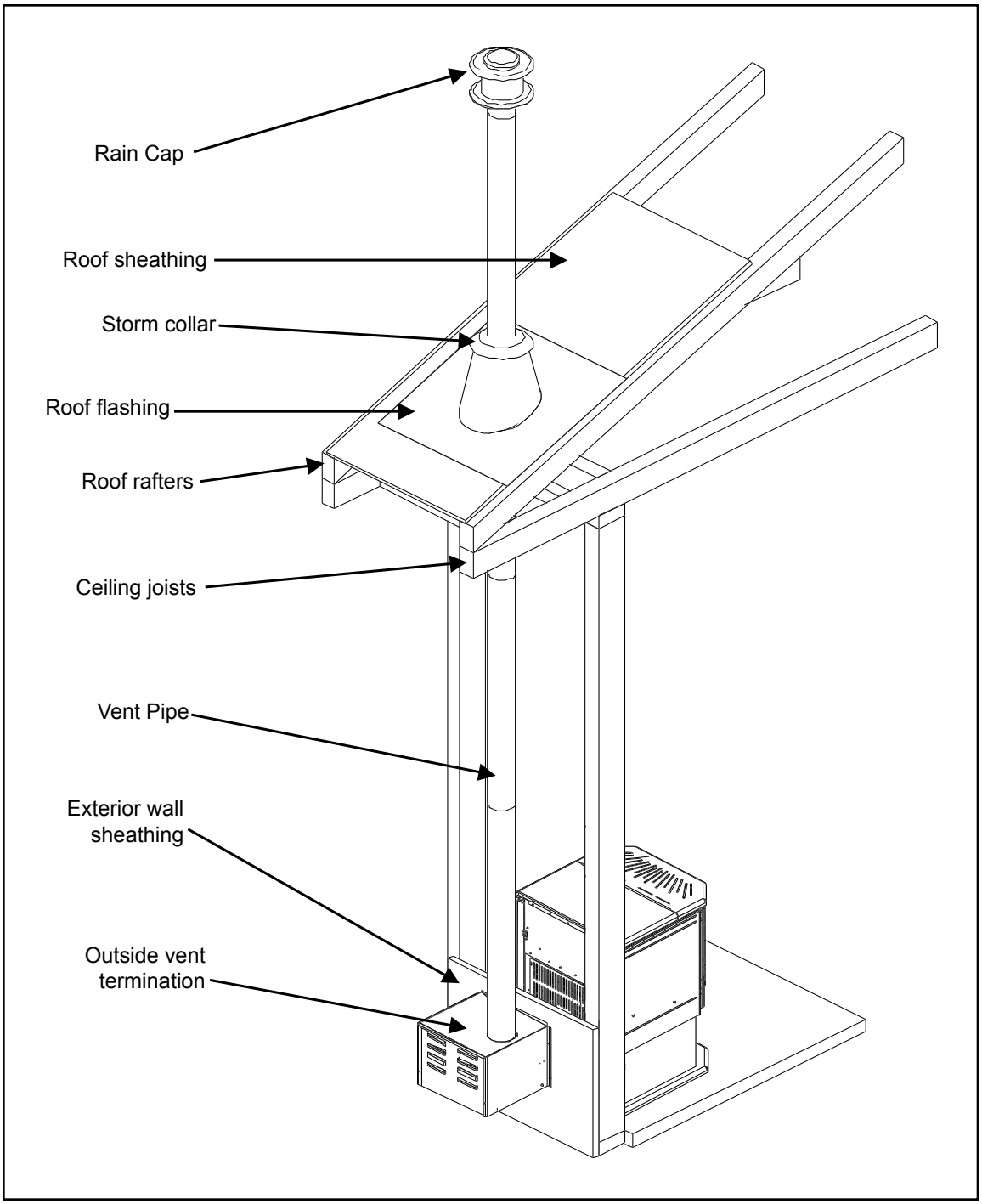


Figure 28: Exhaust Blower Installation; Vertical Termination.

Masonry Fireplace Insert Installation - Fireplace Insert:

The Fireplace insert model requires a surround faceplate and a pedestal. When installing this unit, ensure that the pedestal is removed from the inside of the hopper and installed on the bottom of the unit (Refer to Installation - Installation of Pedestal and Leveling Legs - Fireplace Insert).

Adjust hopper height (see Installation - Installing Hopper Cover and Adjusting Hopper Height - Fireplace Insert) and assemble surround panel (see Installation - Installation and Removal of Control Panel in The Surround Panel - Fireplace Insert and Installation - Assembly and Installation of Insert Surround Panels - Fireplace Insert) before starting installation.

A noncombustible hearth pad must cover combustible flooring underneath, as well as 6" (150 mm) in front of the heater and 6" (150 mm) to the side of the heater

1. Install the hearth pad.
2. Lock the fireplace damper in the open position.
3. Install a positive flue connector at the fireplace damper.
4. Connect a tee or 90° degree elbow to the exhaust pipe.
5. This fireplace insert must be installed with a continuous chimney liner of 3 or 4" diameter extending from the fireplace insert to the top of the chimney. The liner must conform to type 3 requirements of CAN/ULC S635.
6. (Recommended) Install fresh air intake either through the back of the fireplace or through the positive flue connector.

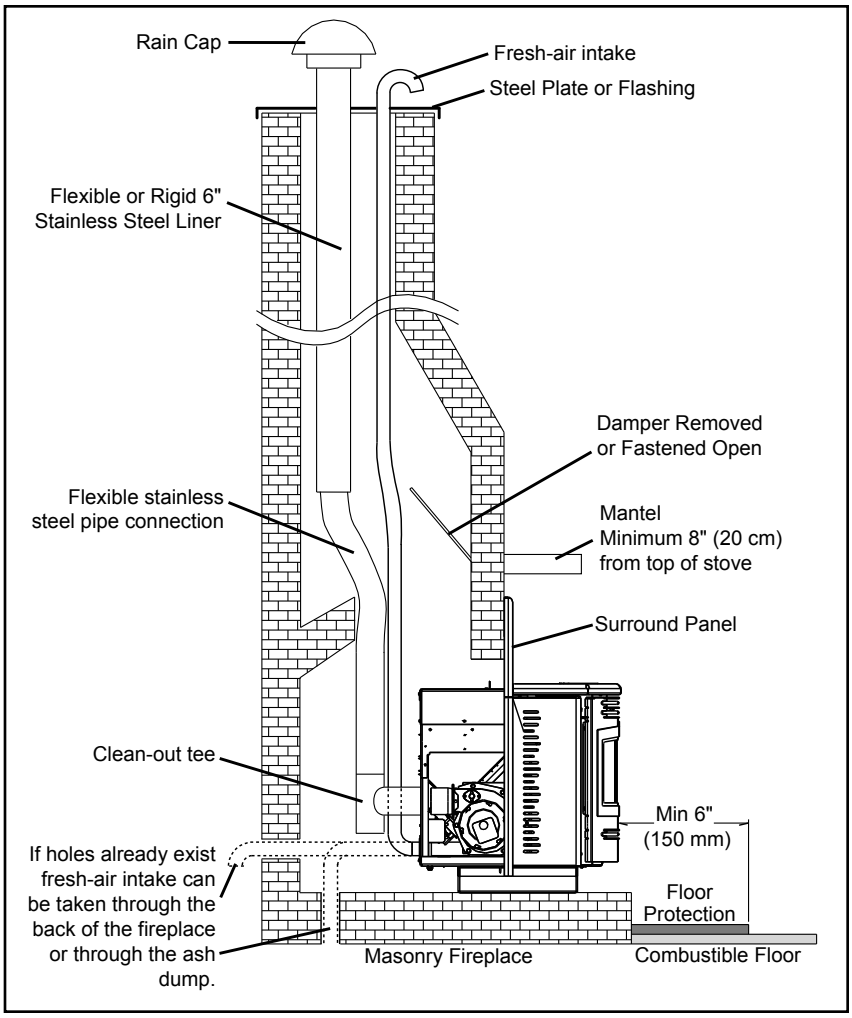

Rain Cap
Fresh-air intake
Steel Plate or Flashing
Flexible or Rigid 6" Stainless Steel Liner
Damper Removed or Fastened Open
Flexible stainless steel pipe connection
Mantel Minimum 8" (20 cm) from top of stove
Surround Panel
Clean-out tee
Min 6" (150 mm)
If holes already exist fresh-air intake can be taken through the back of the fireplace or through the ash dump.
Floor Protection
Masonry Fireplace
Combustible Floor

Figure 29: Installation of Fireplace Insert.

When installing the insert into a masonry fireplace DO NOT remove any bricks or masonry, with the following exception; masonry or steel, including the damper plate, may be removed from the smoke shelf and adjacent damper frame if necessary to accommodate a chimney liner. Provided that their removal will not weaken the structure of the fireplace and chimney, and will not reduce protection for combustible materials to less than that required by the national building code.

When installing the fireplace insert into a zero clearance fireplace, **DO NOT** cut or modify any factory firebox parts. If the fireplace insert does not fit into a zero clearance fireplace we recommend you use an ENVIRO freestanding model and install as a hearth mounted unit. Install a 3" (76 mm) flex pipe from the stove to the top of the chimney (see "Installation - Hearth Mount Installation - Freestanding").

Installation

Installation and Removal of Control Panel in The Surround Panel - Fireplace Insert:

When installing the circuit board control panel into the surround panel, the surround does not need to be assembled. The circuit board will be found in the firebox.

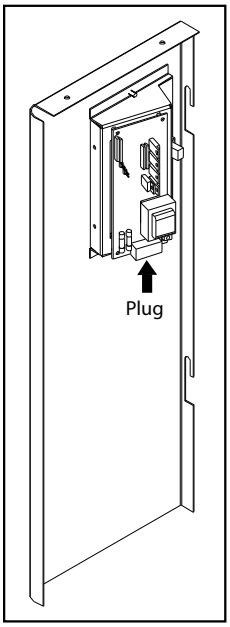


Figure 30: Right Panel - Back.

Place the circuit board control panel on the backside of the right surround panel so the hinge is on the outside and the top and bottom holes on the control panel line up with those on the surround. Attach using two (2) T-20 screws through the front of the surround into the circuit board control panel.

After the surround has been assembled and is ready to be installed on the unit plug the wiring harness into the control panel (see Figure 30).

REMOVAL:

When maintenance is required on the unit the surround must be removed. Pull the surround straight up till it stops then pull it out about 4" (10 cm) and rest the surround on top of the unit while the control panel is removed or disconnected.

If electrical connection is required for the maintenance remove the circuit board control panel from the surround.

If electrical connection is not required for the maintenance remove the wiring harness from the bottom of the circuit board control.

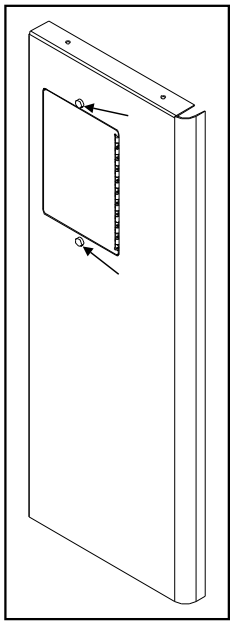


Figure 31: Right Panel - Front.

Assembly and Installation of Insert Surround Panels - Fireplace Insert:

The trim set for your surround panel must be installed before installing the surround panel onto the unit, if not already done.

1. To assemble the surround panels, lay the panels face down on a soft flat surface and align the outer edges of the sides with the top panel. Using four (4) T-20 screws up through the side panels into the top (see Figure 32).
2. Remove the backing off the magnets and stick them inside the trim pieces as shown in Figure 33.
3. Attach one side trim to the top trim, using a corner bracket (see Figure 34) to secure pieces together. There are two (2) main pieces to each corner bracket (see Figure 35). When installing the corner pieces into the trim, the "B FACE" sides must face each other and the screw heads are to face out. With the bracket in place and the top and a side trim snug together, use a flat head screwdriver to turn the two (2) screws in the bracket to tighten it into the trim.
4. Slide the two (2) attached trim pieces onto the surround panel.
5. Attach the other side trim piece to the top trim, using the same method used in Step 3.

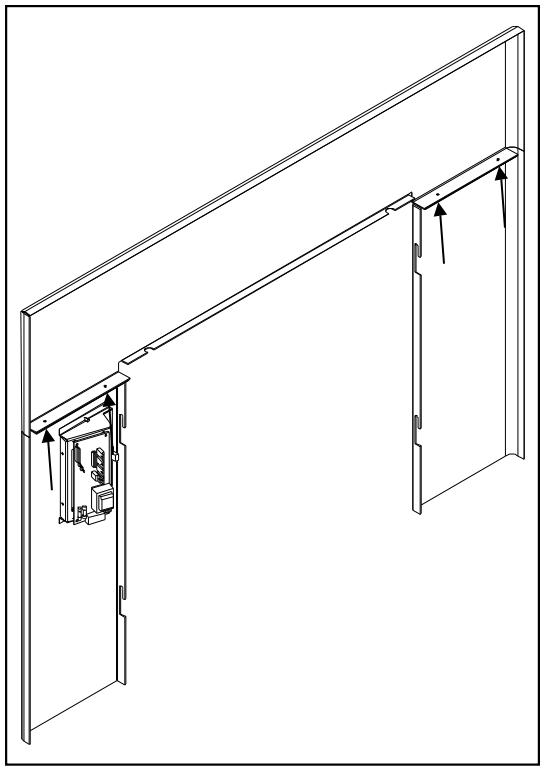


Figure 32: Assembled Surround Panel.

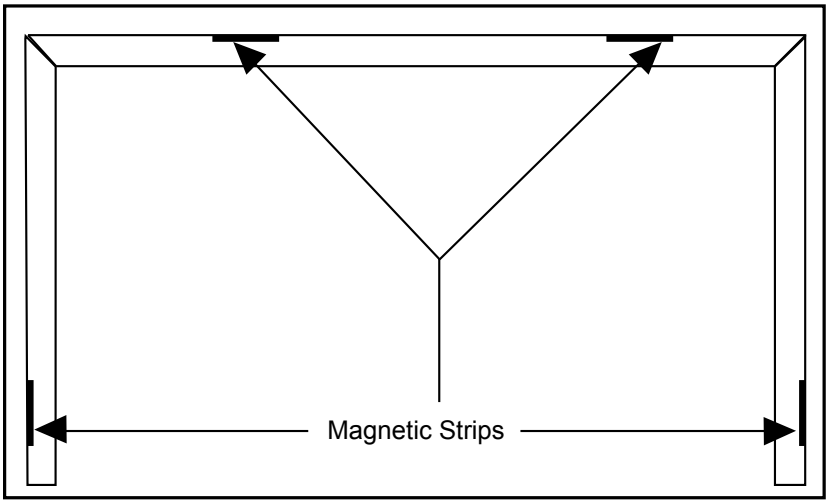


Figure 33: Magnet placement on trim.

6. Place the second side of the trim on the surround panel in the same manner used on the first side and secure in the same manner.
7. On the side trims, there are holes 2" (50 mm) from either end. Use a Phillips screwdriver to place a #8 screw 1¼" long in each hole and tighten (refer to Figure 36). This will keep the trim tight against the surround.
8. Place the assembled surround panel around the stove; align the slots with the screw heads. Push surround in then down to engage the surround slots on the mounting screws (see Figure 37). Make sure the top surround panel sits flat behind the stove top.

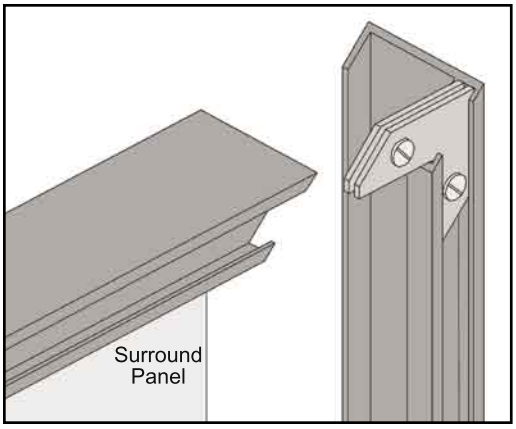


Figure 34: Corner brackets for trim.

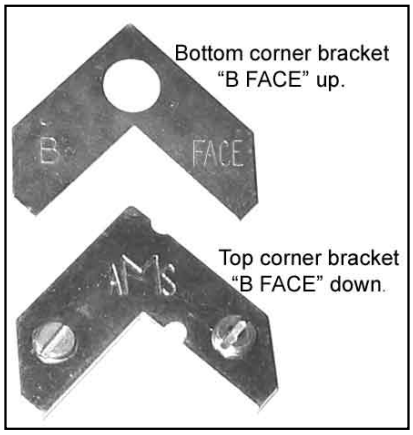


Figure 35: Two pieces of corner bracket.

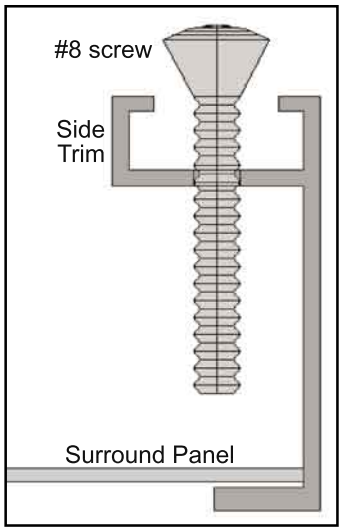


Figure 36: Screw to hold the trim against the surround.

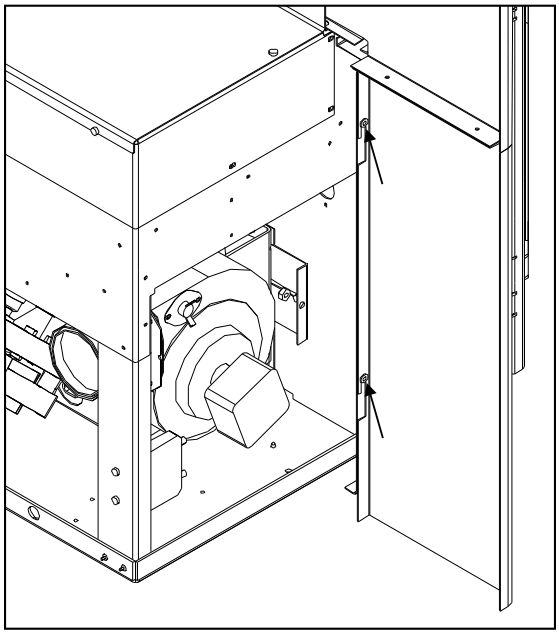


Figure 37: Installed Surround Panel.

Installation

Plated Trim Installation:

TO AVOID PERSONAL INJURY DO NOT REMOVE OR REPLACE TRIMS WHEN PELLET STOVE IS HOT!

KIT COMPONENTS:

Quantity	Description
2	Upper Cabinet Trim
2	Lower Cabinet Trim
1	Top Trim
3	Louver
4	#8 nut plated (spares)

TOOLS REQUIRED:

- T-20 screwdriver
- $^{11}/_{32}$" socket

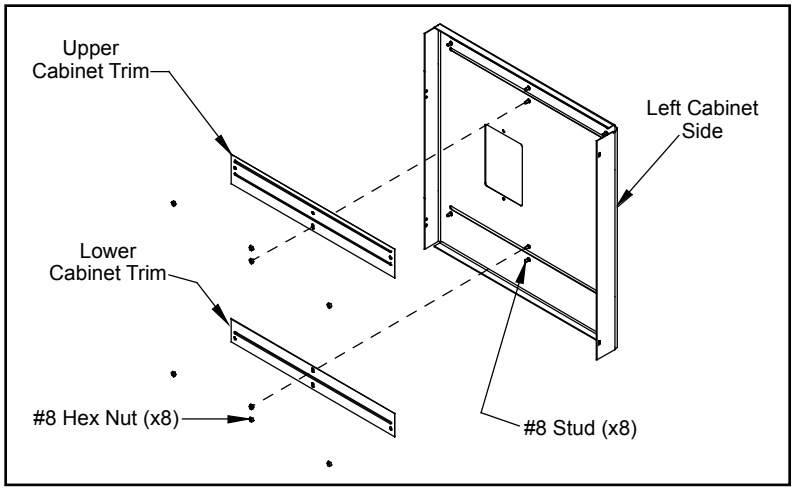


Figure 38: Right cab side with upper and lower cabinet trims.

REMOVAL OF SIDE TRIMS:

When stove is off and cool, open the door. Remove the two (2) screws on the right cab side (at top and bottom of front flange) and the two (2) screws on the left cab side (one above and one below hinge). The cab sides have hinges at the back so they can swing open when the screws have been removed.

Remove the trims that will be replaced by unfastening the #8 hex nuts (four (4) for each piece of trim) by hand. Carefully remove the trim from the studs.

REPLACEMENT OF SIDE TRIMS:

Place the new trim pieces on their corresponding studs and finger tighten the #8 hex nuts (four (4) for each piece of trim). Refer to Figure 38.

Close both cab sides and replace the two (2) screws on each side.

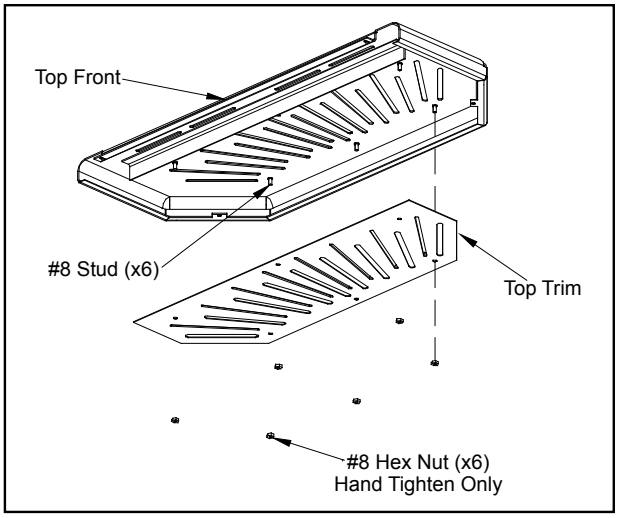


Figure 39: Top front with top trim

REMOVAL OF TOP TRIM:

With door open, undo the two (2) screws on the underside of the top there are visible under the angled corners. Open the hopper lid, remove the two (2) screws that are found attached to the top under the hopper lid. Pull top forward, lift the top front piece off the stove and turn it over. Remove the six (6) #8 hex nuts and pull the trim off the studs.

REPLACEMENT OF THE TOP TRIM:

Place the new trim on its corresponding studs (see Figure 39) and finger tighten the six (6) #8 hex nuts.

Replace top front on top of the stove, remembering to hook the two (2) front tabs under the corresponding tabs on the stove. Replace the two (2) screws on the top under the hopper lid then close lid. Replace the

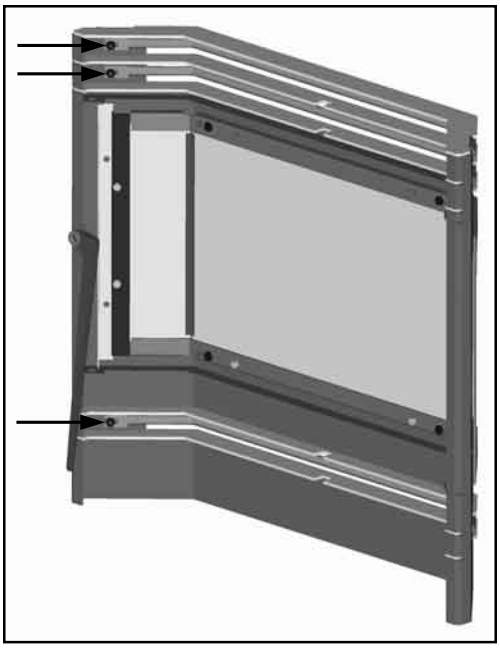


Figure 40: Door with louvers.

two (2) screws under the corner lips above the door. Align top then tighten screws.

REMOVAL OF LOUVER BAR SET:

Door must be open. The three (3) arrows in Figure 40 point to three (3) of the nuts that hold the louvers on. There are three nuts on each end. Remove the six nuts by hand; if the nuts are tight, a $^{11}/_{32}$" socket can be used. When removing the louvers, pull one end of the louver up over the stud. If it is difficult to remove the louver, push on one side from the front, then pull the other end off the second stud.

REPLACEMENT OF LOUVER BAR SET:

Place one slotted end of new louver over a stud, then slide the other slot over the corresponding stud; replace the nuts and hand tighten. Close door when all three louvers are replaced.

Clean all plated surfaces before starting the stove. See Cleaning Plated Surfaces in Routine Cleaning and Maintenance.

Plated Door Installation:

TO AVOID PERSONAL INJURY DO NOT REMOVE OR REPLACE COVER WHEN PELLET STOVE IS HOT!

TOOLS REQUIRED:

- $^{11}/_{32}$" socket or wrench

REMOVAL OF DOOR COVER:

When stove is off and cool, open the door. Remove the four (4) #8 hex nuts around the inside of the glass retainer shown in Figure 41.

Remove door cover from door by gently sliding the studs out of the holes. If it is difficult to remove the cover, the glass retainer may be pinching the threads on the studs. Slightly loosen the four (4) screws (by each of the studs).

REPLACEMENT OF DOOR COVER:

Slide new door cover into place and hand tighten the four (4) #8 hex nuts around the inside of the glass retainer. Ensure the four screws are also hand tight and close door.

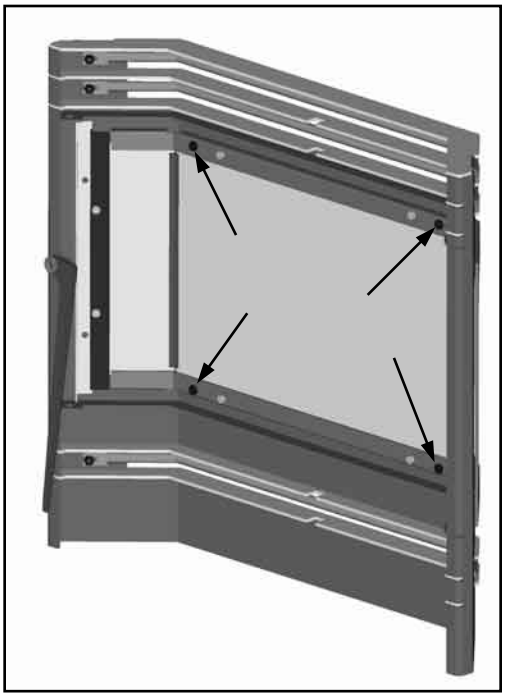


Figure 41: Inner side of Meridian door.

Clean all plated surfaces before starting the stove. See Cleaning Plated Surfaces in Routine Cleaning and Maintenance.

Thermostat Installed:

This control board can be placed into two (2) different modes:

HI / LOW OPERATION: When the jumper J9 is not jumped then the control board is in a HI / LOW mode operation. If the unit has been placed in the HI / LOW mode, the unit will be taken to a low or idle setting when the thermostat is not calling for heat. When the thermostat calls for heat, the unit will go to the setting that is displayed on the control board Heat Indicator. If the heating load is not great enough when the stove is on low, the high limit switch will turn the stove off and the switch will have to be manually reset. To reset the high limit switch, remove the right cabinet side. The switch is found behind the control panel. Avoid setting off the high limit switch.

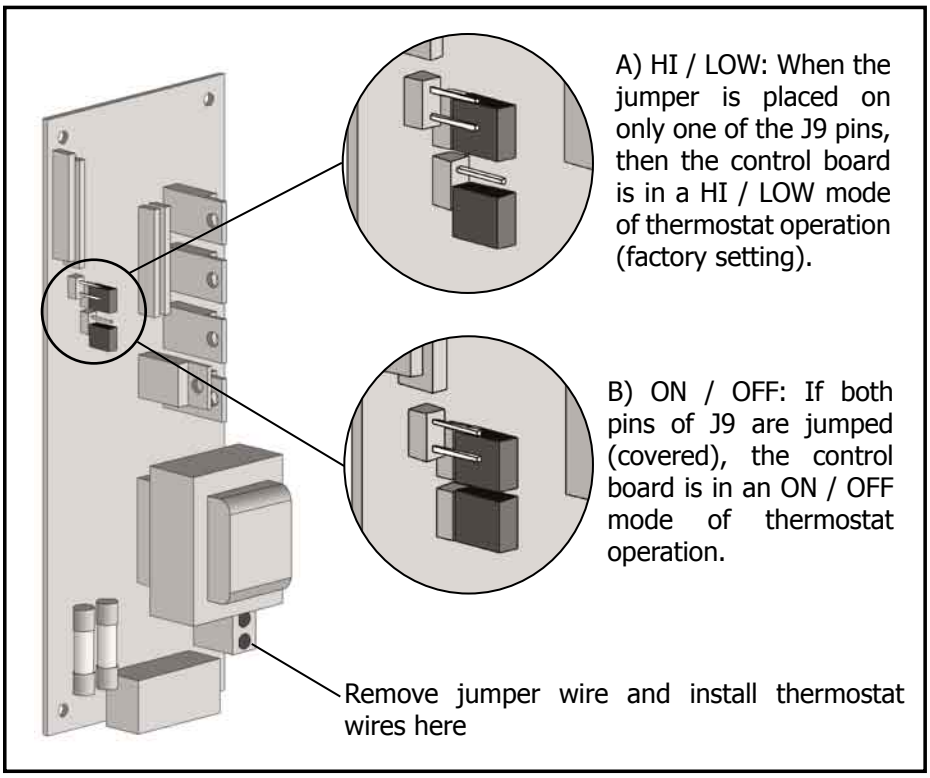

A) HI / LOW: When the jumper is placed on only one of the J9 pins, then the control board is in a HI / LOW mode of thermostat operation (factory setting).
B) ON / OFF: If both pins of J9 are jumped (covered), the control board is in an ON / OFF mode of thermostat operation.
Remove jumper wire and install thermostat wires here

Figure 42: Pin Placement on Circuit Board.

ON / OFF OPERATION: If the control board is placed with J9 jumped then the control board is in a ON / OFF mode of operation. In the ON /OFF thermostat mode, when the thermostat calls for heat, the unit will go through an ignition sequence and light the stove. Once lit the unit will operate at the selected setting displayed on the control board Heat Output Indicator. Once the thermostat stops calling for heat, the unit will stop feeding pellets and begin its shut down sequence until cold then turn off.

1. Install the Low Voltage Thermostat (maximum 24V) in a location that is not to close too the unit but will effectively monitor the desired area to be heated.
2. Open the right cab side to expose thermostat wires and disconnect. Install 18 gauge (see Wiring Diagram) or heavier wire through the grommet in the back, from the stove to the thermostat. Connect thermostat wires to red wires provided.
3. To set the thermostat jumper to the desired mode, remove the two (2) screws holding the circuit board control panel in place. Lower the board and pull out to change jumper.

Slider/Damper Setting:

THE SLIDER / DAMPER MUST BE SET AT TIME OF INSTALLATION, IT IS USED TO REGULATE THE AIRFLOW THROUGH THE PELLET STOVE.

A Qualified Service Technician or Installer must set the Slider Damper.

The slider damper should be set only on a hot stove (operating for thirty (30) minutes or more) by placing a Magnahelic Pressure Gauge in the firebox (test port is located in the center of the stove just below the door opening). Set the slider damper so that the pressure reads **0.11" w.c. (.028 KPa) on HIGH**

HEAT LEVEL and when turned down to **LOW HEAT LEVEL**, a **0.07" to 0.11" w.c**. **(0.018 to 0.028 KPa). Some fuels may require higher or lower settings.**

The pressure readings are taken through a hole in the front of the firebox under the door, using a Magnehelic Gauge.

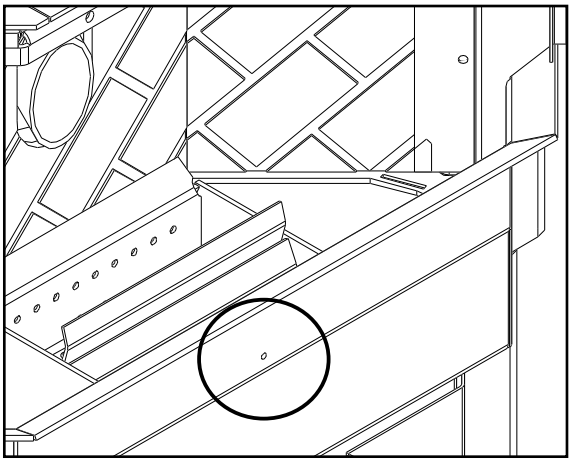


Figure 43: Hole for Pressure test with Magnehelic Gauge.

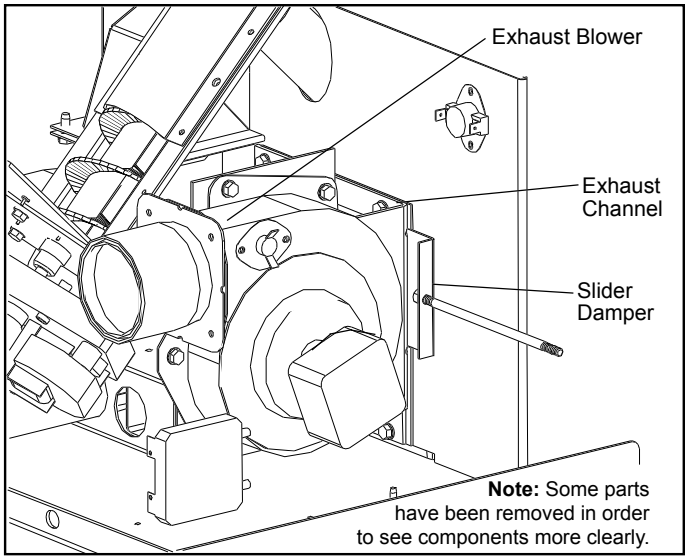

Exhaust Blower
Exhaust Channel
Slider Damper
Note: Some parts have been removed in order to see components more clearly.

Figure 44: Slider / Damper

The slider damper is located behind the left cab side. The door must be open for the cab side to be removed on all models. On freestanding model loosen the two T-20 torx screws, one above and one below hinge, swing open left panel to access. On insert model remove the two (2) T-20 torx screws on the front, one above and one below hinge, and the one T-20 at the top of the cab side under the top front.

The combustion exhaust blower is a variable speed blower controlled by the heat output button. This blower will decrease the vacuum pressure inside the stove and as the heat output button is turned down. The vacuum pressure inside the firebox will increase as the combustion exhaust blower increases in speed (higher heat output setting).

• If the fire should happen to go out and the heat output indicator has been set on the lowest setting, the Slider Damper should be pushed in slightly, decreasing the air in the firebox.

• If, after long periods of burning, the fire builds up and overflows the burn pot or there is a build up of clinkers, this would be a sign that the pellet quality is poor, this requires more primary air, the slider damper must be pulled out to compensate. Pulling the slider damper out gives the fire more air.

The easiest way to make sure that an efficient flame is achieved is to understand the characteristics of the fire.

- A tall, lazy flame with dark orange tips requires more air – Open slider (pull out) slightly.
- A short, brisk flame, like a blowtorch, has too much air – Close slider (push in) slightly.
- If the flame is in the middle of these two characteristics with a bright yellow/orange, active flame with no black tips then the air is set for proper operation.

SPECIAL NOTES:

Pellet quality is a major factor in how the pellet stove will operate. If the pellets have a high moisture content or ash content the fire will be less efficient and has a higher possibility of the fire building up and creating clinkers (hard ash build-up). If this happens, pull the Slider Damper out slightly to increase the air flow to the fire.

Troubleshooting

DO NOT:

- Service the stove with wet hands. The stove is an electrical appliance, which may pose a shock hazard if handled improperly. Only qualified technicians should deal with possible internal electrical failures.
- Do not remove from the firebox any screws without penetrating oil lubrication.
- Hold the ON / OFF BUTTON down. This is a momentary contact switch and can be damaged if held down too long.

WHAT TO DO IF:

1. The stove will not start.
2. The stove will not operate when hot.
3. The exhaust blower will not function normally.
4. Light # 2 on Heat output bar flashing.
5. The auger motor will not function normally.
6. The 200 °F (93 °C) high limit temperature sensor has tripped.
7. The convection blower will not function normally.
8. Ignitor- the pellets will not light.
9. Control settings (Heat Level) has no effect on the fire.
10. The stove keeps going out.

***NOTE: All troubleshooting procedures should be carried out by qualified technicians or installers.**

1. The stove will not start.

✓Make sure the stove is plugged in and the wall outlet is supplying power.
✓Push the ON /OFF button. You may need to wait approximately 30 seconds for circuit board to initiate the stove is on.
✓If the control board has been placed in the on/off thermostat mode, then turn the thermostat up to call for heat.
✓Check the heat level indicator. - If the # 2 light is flashing refer to "4. Light # 2 on Heat output bar flashing.")
✓Check the fuses on the circuit board (see "Troubleshooting - Fuses").
✓If the unit still does not start, contact your local service dealer for service.

2. The stove will not operate when hot.

✓Check the heat level indicator if a fire is not detected, or if the fire has gone out **the #3 light will flash** because the exhaust temperature sensor's contacts have opened.
✓Check the hopper for fuel.
✓Incorrect air damper setting. - Excessive air may consume the fire too quickly before the next drop of fuel, leaving completely unburned fuel in the burn pot liner. - Insufficient air will cause build up, further restricting the air flow through the burn pot liner. This in turn will cause the fuel to burn cold and very slowly. Fuel may build up and smother the fire. In this case clean the burn pot. **(Note: the unit may require a change to the vent system or installation of fresh air to correct air to fuel ratio problems).**
✓Combustion blower failure. - The combustion blower is not turning fast enough to generate the proper vacuum in the fire box. Visual check – is the blower motor turning.
✓Check the exhaust blower voltage across the blower wires (>=220V on #5 setting and >= 165V on #1 setting). – Replace the Circuit Board if the Voltage reading is less than 160V. with a line voltage >220V AC.
✓Check vacuum levels in the exhaust channel by bypassing the vacuum switch, then remove the vacuum

hose from vacuum switch. Check exhaust vacuum readings by placing the open end of the vacuum hose on a Magnahelic Gauge (readings must be above 0.18" to 0.20" W.C. (44.8 to 49.8 Pa) on low fire). If the motor fails to reach a 0.10" W.C. readings, then replace the combustion blower.

✓Poor quality fuel – insufficient energy in the fuel to produce enough heat to keep the stove burning or operational.

✓Exhaust temperature sensor failure. – Bypass sensor located on exhaust blower if stove now operates properly, the unit may require cleaning or a new sensor. Contact your local dealer for service.

✓The burn pot liner may require cleaning. Build up in the burn pot will cause the unit to shut off.

✓Check the fuses on the circuit board (see "Troubleshooting - Fuses").

✓Contact your local dealer for service.

3. The exhaust motor will not function normally.

✓Open the left side access panel; check all connections against the wiring diagram.

✓See "2. The stove will not operate when hot." Section.

4. Light # 2 on Heat output bar flashing

(The Vacuum Switch contacts have opened for more than 15 sec.)

✓Pinch, break or blockage in vacuum hose - check hose for pinch points or damage, replace or re-route as required. Blow out vacuum hose

✓Blocked hose barb on exhaust channel - use a paper clip to clean out hose barb or remove the vacuum hose from the vacuum switch and blow into the hose to remove blockage.

✓Blocked exhaust / venting system - have stove and venting cleaned and inspected.

✓Severe negative pressure in area where unit is installed - check the operation by opening a window, does this solve the problem? If it does, install fresh air intake to unit or room. Venting system may require vertical section to move termination into a low pressure zone.

✓Vacuum switch failure - bypass the vacuum switch, if this corrects the problem check for above problems before replacing the vacuum switch.

✓Damage to gray wires between circuit board and vacuum switch - inspect wires and connectors

✓Combustion blower failure - the combustion blower is not turning fast enough to generate the proper vacuum in the exhaust channel. Visual check; is the blower motor turning? Check the exhaust blower voltage across the blower wires (>=220V on #5 setting and >= 165V on #1 setting). – Replace the Circuit Board if the Voltage reading is less than 160V. with a line voltage >220V AC.

✓Check vacuum levels in the exhaust channel by bypassing the vacuum switch, then remove the Vacuum hose from Vacuum Switch. Check exhaust vacuum readings by placing the open end of the Vacuum Hose on a Magnahelic Gauge. (readings must be above .10" W.C. on low fire).

If the motor fails to reach a 0.10" W.C. readings, then replace the combustion blower

To reset Circuit Board after a trouble code - push the ON/OFF button

5. The auger motor will not function normally.

✓The burn pot liner may require cleaning. Build up in the burn pot will cause the unit to shut off.

✓Check for obstructions in the hopper system.

✓Ensure door is closed and ash pan is closed. The auger motor will stop if there is not enough vacuum in the stove.

✓Call your local dealer for service.

Auger light flashes but auger motor does not turn at all.

✓If the auger gear box does not turn but the motor's armature does try to spin then the auger is jammed. – Try to break apart jam by poking at the jam through the drop tube. If this fails then empty the hopper and remove the auger cover **remember to re-seal the cover after installation**

✓Check the fuses on the circuit board (see "Troubleshooting - Fuses").

6. The 200 °F (93 °C) high limit temperature sensor has tripped.

✓Reset sensor and determine cause – was it convection blower failure or 160 °F (71 °C) temperature sensor failure? Bypass the 160 °F (71 °C) sensor, does the convection blower come on high? If no, replace the blower. If yes, replace sensor (located on the left side of the firewall).

✓Check the fuses on the circuit board (see "TROUBLESHOOTING - FUSES").

7. The convection blower will not function normally.

✓Clean all grill openings at the back and below unit .

✓Press the fan button; does the fan come on? Press again to verify that the blower turns on; if, not contact your local dealer for service.

8. Ignitor- the pellets will not light.

(Everything else in the stove operates but the ignitor will not light the pellets.)

✓Make sure the burn pot liner is up tight and square to the ignitor tube by pushing the burn pot back against the ignitor tube.

✓Check to see if the exhaust blower is operating. If not, contact your local dealer for service.

✓Check the fuses on the circuit board (see "TROUBLESHOOTING - FUSES").

NOTE: The ignitor should be bright orange in color. If not replace the ignitor.

9. Control settings (Heat Level) has no effect on the fire.

✓Note: If the system light is flashing the control board has complete control of the unit. When the units system light becomes solid then control of the unit is given back to the operator.

✓If there is no control of the heat level button make sure the thermostat is calling for heat.

✓Call your local dealer for service.

10. The stove keeps going out.

a) If the stove goes out and leaves fresh unburned pellets or cigarette-like ashes in the burn pot liner, the fire is going out before the stove shuts off.

✓Check to see that the slider / damper is in the correct position.

✓Turn the heat level up slightly (poor quality pellets will require slightly higher settings).

✓Set the auger trim till the #1 and #5 lights are illuminated.

b) If the stove goes out and there are partially burned pellets left in the burn pot liner, the stove has shut down due to a lack of air, exhaust temperature, or power failure.

✓Adjust the slider / damper.

✓Check to see if the stove needs a more complete cleaning.

✓Turn the heat level up slightly (poor quality pellets will require slightly higher settings).

✓Did the power go out?

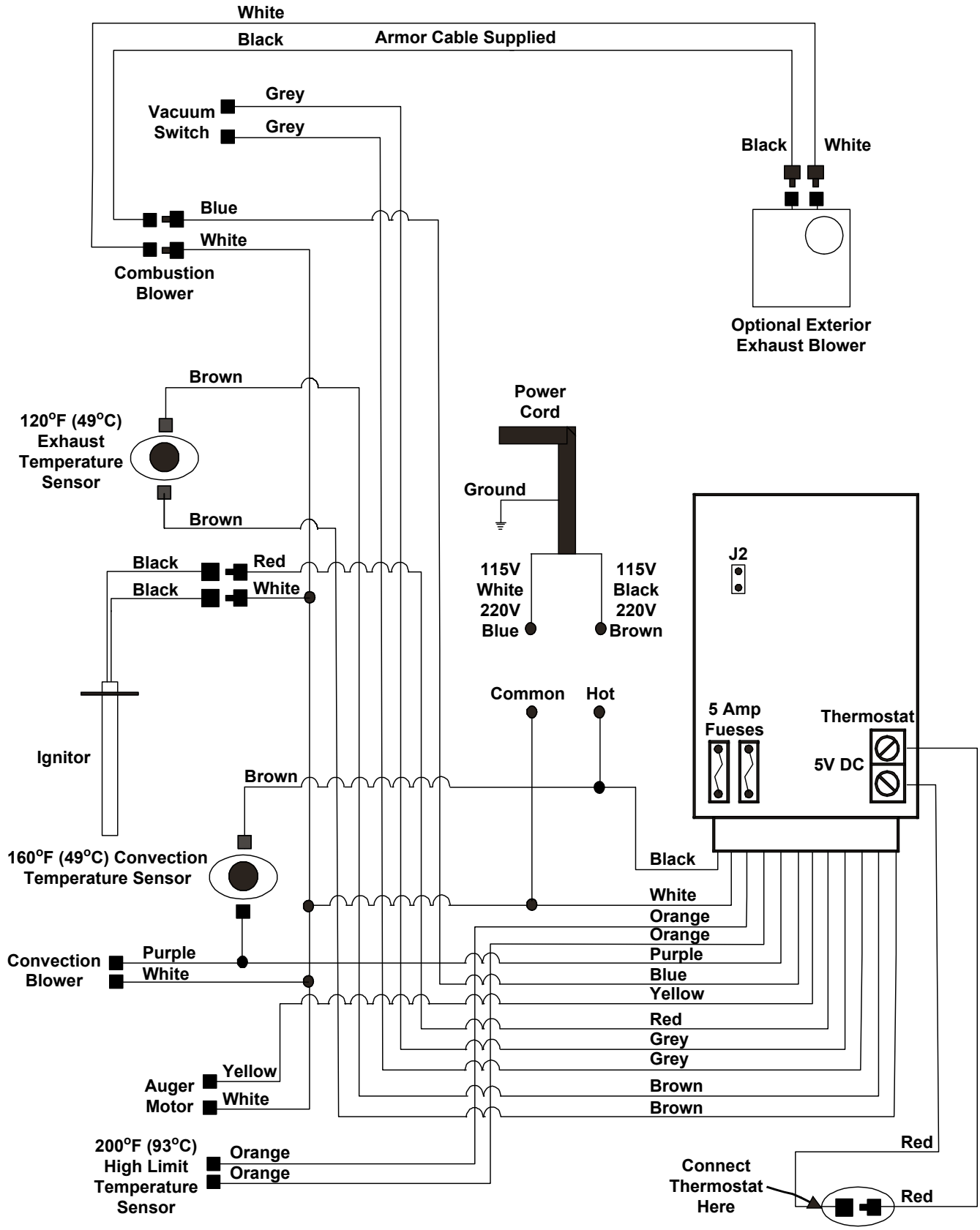
✓Contact your local dealer for service.

FUSES:

F1 is the fuse to the inside of the circuit board controls. If F1 has blown there may have been an input power overload or a short in the convection fan.

F2 fuse closest fuse to the outside edge of the circuit board controls. If fuse F2 has blown then there was a electrical overload problem with one of the following parts: ignitor, auger motor, high limit switch, or exhaust blower.

Wiring Diagram



Parts List

Reference Number	Description	Part Number
1	120 °F (49 °C) Ceramic Fan Temperature Sensor	EC-001
2	Auger Motor - 220V	EF-001-220V
3	Convection Blower - 220V	EF-002-220V
4	Fan Temp Sensor 160 °F (71 °C)	EF-013
5	High Limit Temp Sensor 200 °F (93 °C) Manual Reset	EF-016
6	Vacuum Switch - 220V	EF-017-220V
	Silicone Hose	EF-018
	Aluminum Hose Barb	EF-019
7	Auger	EF-025
8	Door Handle Complete	EF-028
9	Slider Damper Rod with Knob	EF-050
	CE Power Cord - 220V	EF-054-220V
10	Glass Set with Tape	EF-062
11	Slider Damper Plate	EF-064
12	Brass Auger Bushing	EF-065
	1” (25mm) Knob (round)	EF-068
13	Ash Pan Latch (Freestanding)	EF-178
	Pedestal & Ash Pan Gasket - 10’ (305 cm)	EF-208
	External Exhaust Back	EF5-143
	External Exhaust Box	EF5-144
	External Exhaust Bottom	EF5-145
	45° Exhaust Adaptor	EF5-146
	Log Set	20-036
14	Control Panel Door	20-040
	60° Exterior Exhaust Adaptor	50-096
	Circuit Board Decal	50-179
15	Control Panel Touch Latch	50-323
16	Circuit Board Control Panel	50-330
	Circuit Board Stand Offs	50-331
17	Stainless Steel Burn Pot Liner - Standard	50-474
17	Stainless Steel Burn Pot Liner - High Ash	50-587

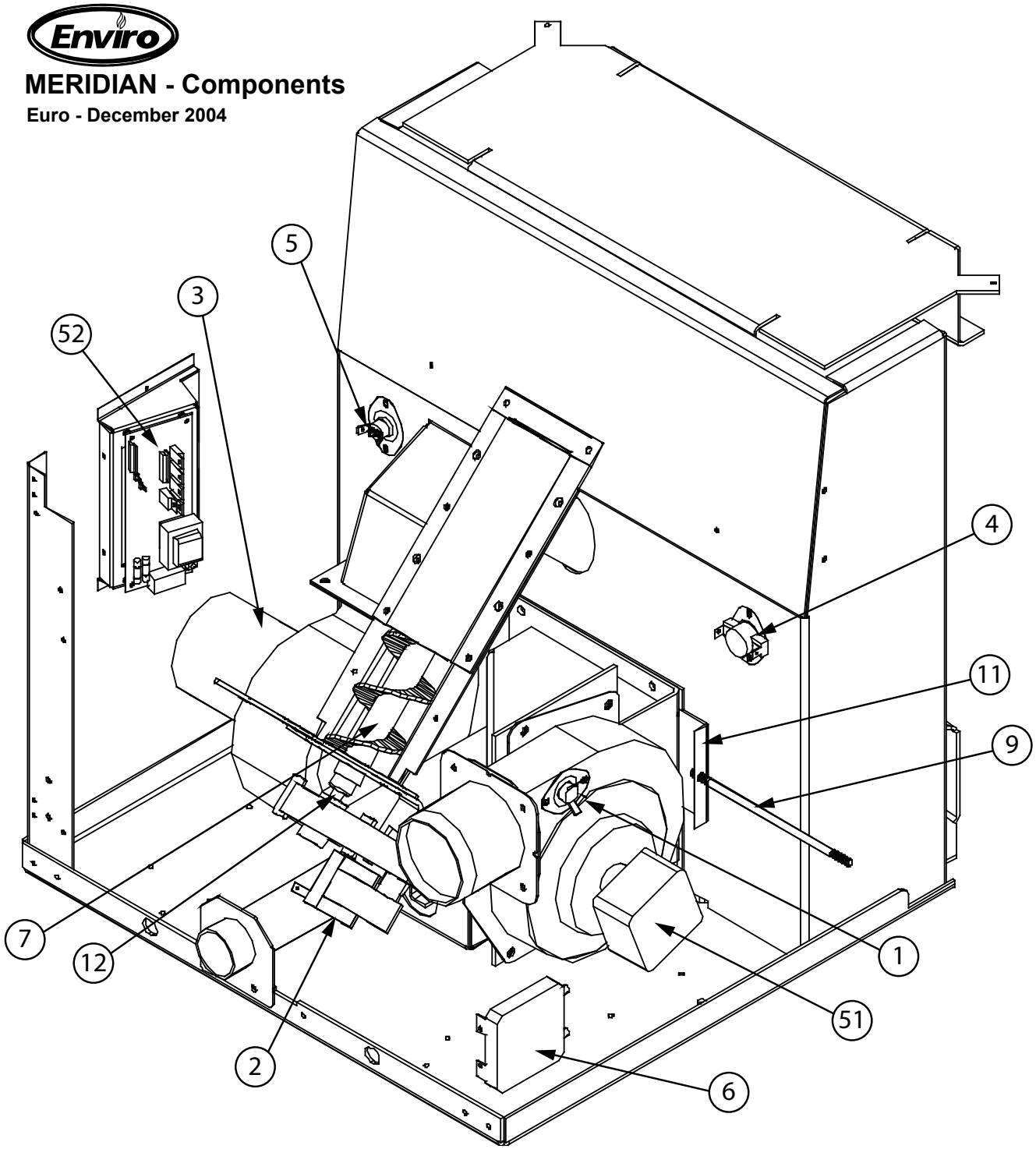
Parts List

Reference Number	Description	Part Number
	External Exhaust Kit - 220V	50-492
18	Flush Handle for Hopper Lid (Freestanding)	50-523
	Body Trim Kit - Pewter (Freestanding)	50-620
	Body Trim Kit - Gold (Freestanding)	50-621
	Body Trim Kit - Antique Copper (Freestanding)	50-622
19	Door Cover - Painted	50-683
19	Door Cover - Pewter	50-623
19	Door Cover - Gold	50-624
19	Door Cover - Antique Copper	50-625
20	Door	50-653
21	Louver Bar Set - Painted	50-654
21	Louver Bar Set - Gold	50-655
21	Louver Bar Set - Pewter	50-656
21	Louver Bar Set - Antique Copper	50-657
22	Burn Pot	50-658
23	Ash Pan (Freestanding)	50-659
24	Pedestal (Freestanding)	50-660
25	Cabinet Side Left (Freestanding)	50-661
26	Lower Cabinet Trim (1 piece) - Painted (Freestanding)	50-662
26	Lower Cabinet Trim (1 piece) - Gold (Freestanding)	50-663
26	Lower Cabinet Trim (1 piece) - Pewter (Freestanding)	50-664
26	Lower Cabinet Trim (1 piece) - Antique Copper (Freestanding)	50-665
27	Upper Cabinet Trim (1 piece) - Painted (Freestanding)	50-666
27	Upper Cabinet Trim (1 piece) - Gold (Freestanding)	50-667
27	Upper Cabinet Trim (1 piece) - Pewter (Freestanding)	50-668
27	Upper Cabinet Trim (1 piece) - Antique Copper (Freestanding)	50-669
28	Cabinet Side Right (Freestanding)	50-670
29	Top Trim - Painted	50-671
29	Top Trim - Gold	50-672
29	Top Trim - Pewter	50-673
29	Top Trim - Antique Copper	50-674

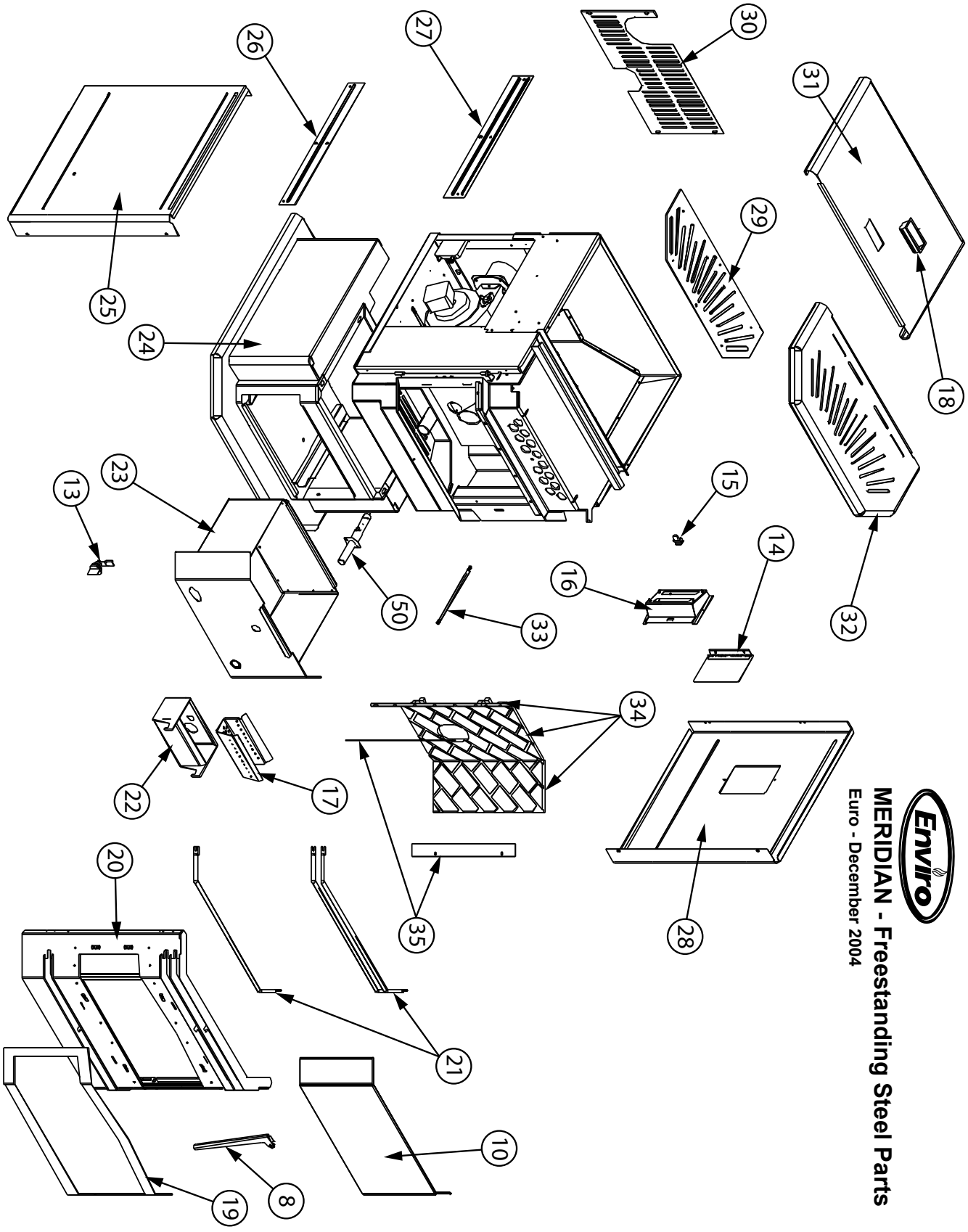
Parts List

Reference Number	Description	Part Number
30	Back Grill (Freestanding)	50-675
31	Hopper Lid (Freestanding)	50-676
32	Top Front (Freestanding)	50-677
33	Tube Cleaner Rod	50-680
34	Brick Panel Set	50-681
35	Brick Retainer Set	50-682
36	Regular Panel Set (Insert)	50-769
37	Oversized Panel Set (Insert)	50-770
	Trim Kit - Pewter (Insert)	50-771
	Trim Kit - Antique Copper (Insert)	50-772
	Trim Kit - Gold (Insert)	50-773
38	Regular Panel - Left (Insert)	50-817
39	Regular Panel - Right (Insert)	50-818
40	Regular Panel - Top (Insert)	50-819
41	Oversized Panel - Left (Insert)	50-820
42	Oversized Panel - Right (Insert)	50-821
43	Oversized Panel - Top (Insert)	50-822
44	Cabinet Side - Left (Insert)	50-823
45	Cabinet Side - Right (Insert)	50-824
46	Top Front (Insert)	50-825
47	Ash Pan (Insert)	50-826
48	Hopper Lid (Insert)	50-827
49	Hopper Cover (Insert)	50-828
50	300 Watt Ignitor 220V	50-829
	DIN Owner's Manual - 220V	50-830
	DIN Technical Manual - 220V	50-831
	Exhaust Starter Tube 80mm diameter x 2½" Long	50-898
51	Combustion/ Exhaust Blower - 220V	50-900
52	Circuit Board 5 Amp Fuses - 220V (Pair)	50-834
52	Circuit Board - 220V	50-1015

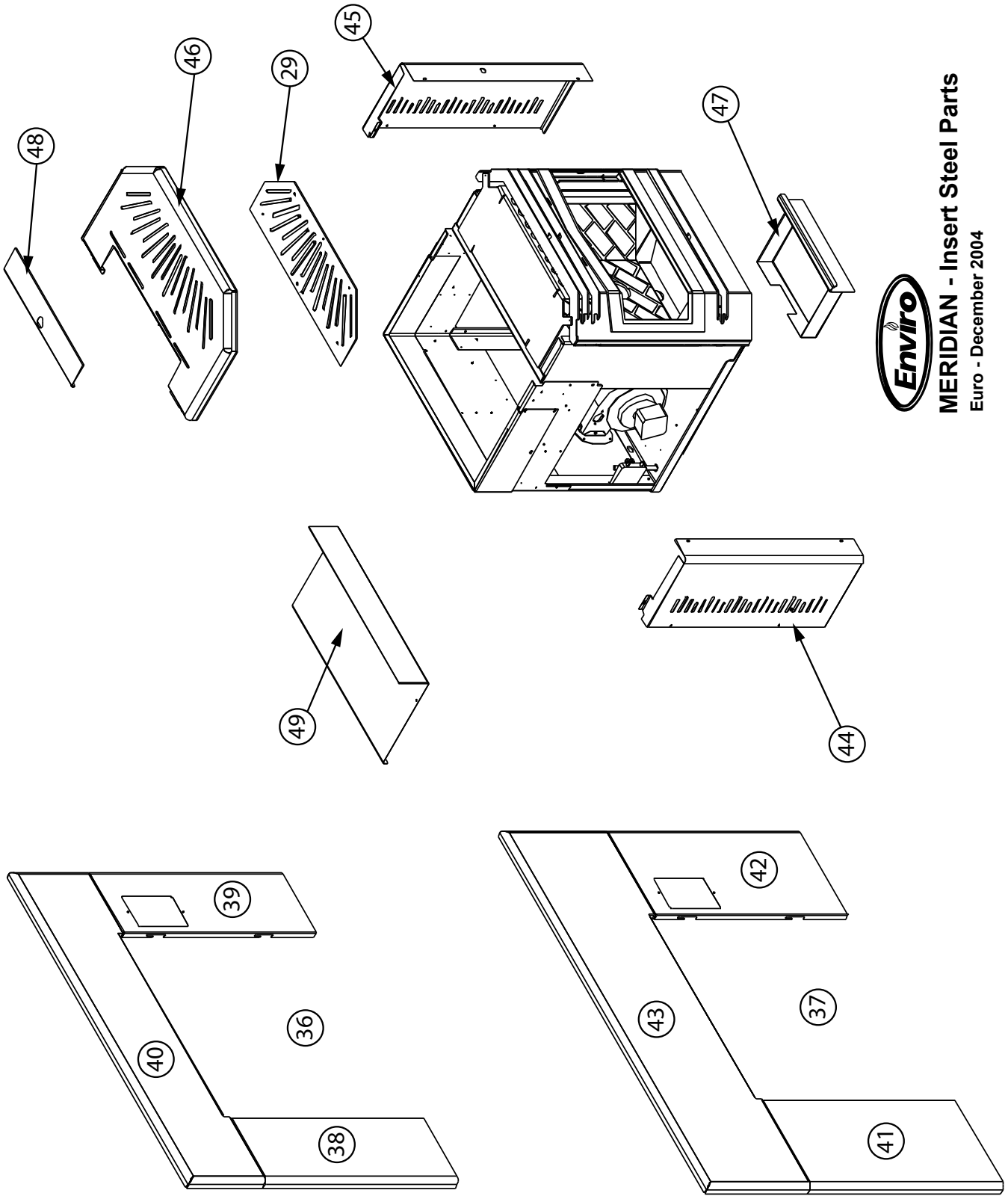
Parts Diagram - Components



Parts Diagram - Freestanding Steel



Parts Diagram - Insert Steel



Warranty

Sherwood Industries Ltd. gives a five year limited warranty on all steel manufactured parts. A one-year warranty is provided on all electrical components. The above limited warranties are extended only to the original purchaser.

There is no warranty on the following parts:
- Glass window
- Fiberglass rope gaskets
- refractory material
- burn pot liner
- paint
- enamel finish or gold plating where it applies

****NOTE:** The paint on the brick firebox lining may peel. This is due to the extreme conditions applied to the paint and is in no way covered under warranty.

WHEN FILING A WARRANTY CLAIM PLEASE COMPLETE THE FOLLOWING INFORMATION ON AN OFFICIAL WARRANTY CLAIM FORM:

TO THE DEALER:
- Name and address of dealer,
- Date of purchase
- Name, address and telephone number of purchaser
- Name, address and telephone number of installer
- Date of installation, and
- Serial number of the appliance

Ensure that you specify the nature of the complaint, defect, periodical malfunction, etc.

TO THE DISTRIBUTOR:
- Sign and verify that work and information are correct.
- Description and part # of any parts replaced.

The limited warranty covers defects in materials and workmanship as long as the products has been installed according to the manual's instruction. If the product is damaged or broken as a result of mishandling or misuse, the warranty does not apply. Removal and re-installation costs are not covered under this warranty.

It is the manufacturer's option whether to repair or replace the appliance. The shipping cost to and from the factory is to be paid by the consumer. All warranties by the manufacturer are set forth herein and no claim shall be made against the manufacturer on any oral warranty or representation.

The manufacturer assumes no responsibility for damage caused by household power fluctuations or power surges.

Under Warranty

For the do-it-yourself Individual
The consumer should be aware that the pellet appliance needs setting using tools that he/she might not have. It is recommended that you have a qualified installer install your pellet appliance

Sherwood Industries Ltd. reserves the right to make changes without any notice.

Installation Data Sheet

The following information must be recorded by the installer for warranty purposes and future reference.

NAME OF OWNER:

_____

ADDRESS:

_____

_____

_____

PHONE:_____

NAME OF DEALER:

_____

ADDRESS:

_____

_____

_____

PHONE:_____

MODEL:_____

SERIAL NUMBER:_____

DATE OF PURCHASE: _____ (dd/mm/yyyy)

DATE OF INSTALLATION:_____(dd/mm/yyyy)

MAGNEHELIC AT INSTALL:_____

INSTALLER'S SIGNATURE:

_____

NAME OF INSTALLER:

_____

ADDRESS:

_____

_____

_____

PHONE:_____

MANUFACTURED BY:
SHERWOOD INDUSTRIES LTD.
6782 OLDFIELD RD. SAANICHTON, BC, CANADA V8M 2A3
www.envirofire.biz
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C-10775